

Teknor Apex Company - Thermoplastic Vulcanizate

Saturday, September 14, 2024

General Information

Product Description

SARLINK® TPV 3100 series are engineered materials designed primarily for general purpose, automotive and industrial applications requiring a good balance of thermal, mechanical, and physical properties. SARLINK® 3145D, available in NAT and BLK, is a high hardness, low density, multi-purpose thermoplastic vulcanizate that can be processed by injection molding, blow molding or extrusion for applications such as grips, seals, gaskets, profiles, hose & tubes, bellows, and other articles.

Material Status	 Commercial: Active 		
Availability	 Africa & Middle East Asia Pacific	 Europe Latin America	North America
Features	Chemical ResistantFatigue ResistantGeneral PurposeGood AdhesionGood Moldability	Good ProcessabilityGood Surface FinishGood Weather ResistanceHigh HardnessLow Density	Low Specific GravityMedium Heat ResistanceResilient
Uses	 Automotive Applications Automotive Exterior Parts Automotive Interior Parts Automotive Under the Hood 	Blow Molding ApplicationsGrommetsIndustrial ApplicationsPlugs	 Profiles Rubber Replacement Weatherstripping
Agency Ratings	• UL 94		
RoHS Compliance	RoHS Compliant		
Automotive Specifications	 FORD WSK-M4D712-A1 Color: Black FORD WSK-M4D712-A1 Color: Natural GM QK 3533 Type 3 Color: Black GM QK 3533 Type 3 Color: Black PSA Peugeot-Citroën B62 0300 version G Color: Black VOLVO STD 412-0001 Color: Black 		
UL File Number	• QMFZ2.E54709		
Appearance	• Black	Natural Color	• Opaque
Forms	• Pellets		
Processing Method	Blow Molding	Extrusion	Injection Molding

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Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.938	g/cm³	ASTM D792
Density	0.940	g/cm³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Across Flow: 100% Strain	12.8	MPa	
Flow: 100% Strain	15.5	MPa	
Tensile Stress			ISO 37
Across Flow: 100% Strain	12.8	MPa	
Flow: 100% Strain	15.5	MPa	
Tensile Strength			ASTM D412
Across Flow: Break	22.5	MPa	
Flow: Break	19.4	MPa	

Revision Date: 4/9/2018

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Ternils Speas Speak Sp	Elastomers	Nominal Value	Unit	Test Method
Flow: Break	Tensile Stress			ISO 37
Tensile Elongation	Across Flow: Break	22.5	MPa	
Across Flow: Break 360 % Flow: Break 300 % 1 Fensile Linguation \$80.37 Across Flow: Break 400 % Flow: Break 400 % Tem Strength - Across Flow 313 kVm ASTM D624 1 Eur Strength - Across Flow 313 kVm 1800 34-1 Compression Set 57 % 2 3°C, 22 br 57 % 7 125°C, 70 br 90 % 2 3°C, 22 br 57 % 125°C, 70 br 90 % 2 3°C, 22 br 70°C, 22 br 180 815 125°C, 70 br 90 % 2 3°C, 22 br 70°C 180 815 3 5°C, 20 br 30 % 125°C, 70 br 90 % 126°C, 22 br 70°C \$ 180°C, 10 kr 8 100 180°C, 20 kr 180 8 180°C, 20 kr 180 8 Shore D, 5 sec, Extruded 47<	Flow: Break	19.4	MPa	
Flow : Break 400 % 180 37 180 3	Tensile Elongation			ASTM D412
Tensile Elongation	Across Flow: Break	700	%	
Across Flow: Break 700 % Flow: Break 400 % Flow: Break 400 % 700	Flow: Break	400	%	
Flow: Break	Tensile Elongation			ISO 37
Tear Strength - Across Flow 2 131 kN/m ASTM D624 Compression Set 57 % ASTM D395 23°C, 22 lhr 70°C, 22 lhr 70°C, 22 lhr 70°C, 22 lhr 90 % S 125°C, 70 hr 90 % S Compression Set ISO 815 S 23°C, 22 lhr 90 % S 70°C, 22 lhr 90 % S 125°C, 70 hr 90 % S 125°C, 20 lhr 90 % S 125°C, 70 hr 150 % S 150 C, 5 ee, Extruded 30 C 150 C, 5 ee, Extruded 50	Across Flow: Break	700	%	
Tear Strength - Across Flow 2	Flow: Break	400	%	
Compression Set	Tear Strength - Across Flow	131	kN/m	ASTM D624
23°C, 22 hr 70°C, 22 hr 70°C, 22 hr 125°C, 70 hr Compression Set 23°C, 22 hr 30°C, 22 hr 30°C, 22 hr 10°C, 24 hr 10°C, 22 hr 10°C, 168 hr 100% Strain, 13°C, 1000 hr 110% Strain, 13°C, 1000 hr 110% Strain, 13°C, 1000 hr 100% Strain 13°C, 1000 hr 10°C, 168 hr 10°C,	Tear Strength - Across Flow ²	131	kN/m	ISO 34-1
70°C, 22 lrr 12°C, 70 hr 90 % 12°S°C, 70 hr 50 90 % 12°S°C, 22 lrr 57 % 22°S°C, 22 lrr 70°C, 22 hr 70 % 12S°C, 22 hr 70 % 12S°C, 22 hr 70 % 12S°C, 70 hr 90 % 12S°C, 100 hr 10 hr 1	Compression Set			ASTM D395
125°C, 70 hr 90 % 150 815 15	23°C, 22 hr	57	%	
Compression Set	70°C, 22 hr	70	%	
23°C, 22 hr 57 % 70°C, 22 hr 70°C, 168 hr 150°C,	125°C, 70 hr	90	%	
23°C, 22 hr 57 % 70°C, 22 hr 70°C, 168 hr 150°C,				ISO 815
Hardness Nominal Value Unit Test Method Durometer Hardness 47 ASTM D2240 Shore D, 5 see, Extruded 47 Shore D, 5 see, Injection Molded 50 Shore Hardness ISO 868 ISO 868 Shore D, 5 see, Injection Molded 47 Status 10 Shore D, 5 see, Injection Molded 50 C Thermal Nominal Value Unit Test Method RTI Elec 50.0 C UL 746B RTI Imp 50.0 C UL 746B RTI Str Test Method ASTM D573 135°C, 1000 hr 2.0 % 150°C, 168 hr 8.0 * 100% Strain, 135°C, 1000 hr<	23°C, 22 hr	57	%	
Hardness Nominal Value Unit Test Method Durometer Hardness ASTM D2240 Shore D, 5 see, Extruded 50 Shore D, 5 see, Injection Molded 50 Shore D, 5 see, Extruded 47 Shore D, 5 see, Injection Molded 50 Thermal Nominal Value Unit Test Method RTI Elec 50.0 °C UL 746B RTI Imp 50.0 °C UL 746B RTI Str 50.0 °C UL 746B RT Str	70°C, 22 hr	70	%	
Durometer Hardness	125°C, 70 hr	90	%	
Shore D, 5 sec, Extruded 47 Shore D, 5 sec, Injection Molded 50 Shore Hardness ISO 868 Shore D, 5 sec, Extruded 47 Shore D, 5 sec, Injection Molded 50 Thermal Nominal Value Unit Test Method RTI Elec 50.0 °C UL 746B RTI Imp 50.0 °C UL 746B RTI Str 50.0 °C UL 746B Aging Nominal Value Unit Test Method Change in Tensile Strength in Air - Across Flow ASTM D573 ASTM D573 135°C, 1000 hr 1.6 % 100% Strain, 135°C, 168 hr 5.0 % 100% Strain, 150°C, 168 hr 5.0 % 150 188 155°C, 168 hr 150°C, 168 hr 150°C, 168 hr ASTM D573 150°C, 168 hr 4 150°C, 168 hr ASTM D573 150°C, 168 hr 4 150°C, 168 hr 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Hardness	Nominal Value	Unit	Test Method
Shore D, 5 see, Injection Molded 50 Shore Bardness 1SO 868 Shore D, 5 see, Extruded 47 Shore D, 5 see, Injection Molded 50 Thermal Nominal Value Unit Test Method RTI Elec 50.0 °C UL 746B RTI Imp 50.0 °C UL 746B RTI Str 50.0 °C UL 746B Aging Nominal Value Unit Test Method Change in Tensile Strength in Air - Across Flow ASTM D573 ASTM D573 135°C, 1000 hr 1.6 ° 150°C, 168 hr ISO 188 135°C, 1000 hr 2.0 ° 150°C, 168 hr ISO 188 135°C, 1000 hr 1.6 ° 150°C, 168 hr ASTM D573 150°C, 168 hr 5.0 ° ASTM D573 135°C, 1000 hr 1.6 ° ASTM D573 135°C, 168 hr 5.0 ° ASTM D573 135°C, 168 hr 5.0 ° ASTM D573 135°C, 168 hr 1.1 °<	Durometer Hardness			ASTM D2240
Shore Hardness ISO 868 Shore D, 5 sec, Extruded 47 Shore D, 5 sec, Injection Molded 50 Thermal Nominal Value Unit Test Method RTI Elec 50.0 °C UL 746B RTI Imp 50.0 °C UL 746B RTI Str 50.0 °C UL 746B Aging Nominal Value Unit Test Method Change in Tensile Strength in Air - Across Flow ASTM D573 135°C, 1000 hr 2.0 % ASTM D573 150°C, 168 hr -5.0 % Strength in Air - Across Flow ISO 188 135°C, 1000 hr 2.0 % Strength in Air - Across Flow ISO 188 150°C, 168 hr -5.0 % ASTM D573 150°C, 168 hr -5.0 % ASTM D573 150°C, 168 hr -5.0 % ASTM D573 135°C, 1000 hr 1.0 % ASTM D573 135°C, 168 hr -5.0 % ASTM D573 135°C, 168 hr -5.0 % ASTM D573 135°C, 1000 hr -1.1 % ASTM D573 150°C, 168 hr	Shore D, 5 sec, Extruded	47		
Shore D, 5 see, Extruded 47 Shore D, 5 see, Injection Molded 50 Thermal Nominal Value Unit Test Method RTI Elec 50.0 °C UL 746B RTI Imp 50.0 °C UL 746B RTI Str 50.0 °C UL 746B Aging Nominal Value Unit Test Method Aging Nominal Value Unit Test Method Change in Tensile Strength in Air - Across Flow 2.0 % ASTM D573 135°C, 1000 hr 1.6 % Stream, 150°C, 168 hr Stream, 150°C, 168 hr 150°C, 168 hr 2.0 % Stream, 150°C, 168 hr ISO 188 135°C, 1000 hr 1.6 % Stream, 150°C, 168 hr ASTM D573 150°C, 168 hr 5.0 % ASTM D573 135°C, 1000 hr 1.1 % ASTM D573	Shore D, 5 sec, Injection Molded	50		
Shore D, 5 sec, Injection Molded 50 Thermal Nominal Value Unit Test Method RTI Elec 50.0 °C UL 746B RTI Imp 50.0 °C UL 746B RTI Str 50.0 °C UL 746B Aging Nominal Value Unit Test Method Change in Tensile Strength in Air - Across Flow ASTM D573 ASTM D573 135°C, 1000 hr 16 % * 150°C, 168 hr 5.0 % * 100% Strain, 150°C, 168 hr 8.0 % * Change in Tensile Strength in Air - Across Flow ISO 188 135°C, 1000 hr 2.0 % * 100% Strain 153°C, 1000 hr 16 % * 100% Strain 150°C, 168 hr -5.0 % * 150°C, 168 hr -5.0 % * 150°C, 168 hr -11 %	Shore Hardness			ISO 868
Thermal Nominal Value Unit Test Method RTI Elec 50.0 °C UL 746B RTI Imp 50.0 °C UL 746B RTI Str 50.0 °C UL 746B Aging Nominal Value Unit Test Method Change in Tensile Strength in Air - Across Flow ASTM D573 135°C, 1000 hr 2.0 % * 150°C, 168 hr 5.0 % * 100% Strain, 150°C, 168 hr 8.0 % * Change in Tensile Strength in Air - Across Flow ISO 188 135°C, 1000 hr 2.0 % * 100% Strain 135°C, 1000 hr 16 % * 150°C, 168 hr 5.0 % * 100% Strain 150°C, 168 hr 8.0 % * Change in Ultimate Elongation in Air - Across Flow ASTM D573 * 135°C, 1000 hr -11 % * Change in Tensile Strain at Break in Air - Across Flow ISO 188 135°C, 1000 hr -11 % *	Shore D, 5 sec, Extruded	47		
RTI Elec 50.0 °C UL 746B RTI Imp 50.0 °C UL 746B RTI Str 50.0 °C UL 746B Aging Nominal Value Unit Test Method Change in Tensile Strength in Air - Across Flow ASTM D573 135°C, 1000 hr 2.0 % ** 150°C, 168 hr -5.0 % ** 100% Strain, 135°C, 1000 hr 8.0 % ** Change in Tensile Strength in Air - Across Flow ISO 188 135°C, 1000 hr 2.0 % ** 100% Strain 135°C, 1000 hr 16 % ** 150°C, 168 hr -5.0 % ** 100% Strain 150°C, 168 hr 8.0 % ** Change in Ultimate Elongation in Air - Across Flow ASTM D573 135°C, 1000 hr -11 % ** Change in Tensile Strain at Break in Air - Across Flow ISO 188 Change in Tensile Strain at Break in Air - Across Flow ISO 188	Shore D, 5 sec, Injection Molded	50		
RTI Imp 50.0 °C UL 746B RTI Str 50.0 °C UL 746B Aging Nominal Value Unit Test Method Change in Tensile Strength in Air - Across Flow ASTM D573 135°C, 1000 hr 2.0 % 100% Strain, 135°C, 1000 hr 16 % 150°C, 168 hr 8.0 % Change in Tensile Strength in Air - Across Flow ISO 188 135°C, 1000 hr 2.0 % 100% Strain 135°C, 1000 hr 16 % 150°C, 168 hr -5.0 % 100% Strain 150°C, 168 hr 8.0 % Change in Ultimate Elongation in Air - Across Flow ASTM D573 135°C, 1000 hr -11 % 150°C, 168 hr -11 % Change in Tensile Strain at Break in Air - Across Flow ISO 188 Change in Tensile Strain at Break in Air - Across Flow ISO 188	Thermal	Nominal Value	Unit	Test Method
RTI Str 50.0 °C UL 746B Aging Nominal Value Unit Test Method Change in Tensile Strength in Air - Across Flow 2.0 % 135°C, 1000 hr 16 % 150°C, 168 hr -5.0 % 100% Strain, 150°C, 168 hr 8.0 % Change in Tensile Strength in Air - Across Flow ISO 188 135°C, 1000 hr 2.0 % 100% Strain 135°C, 1000 hr 16 % 150°C, 168 hr -5.0 % 100% Strain 150°C, 168 hr 8.0 % Change in Ultimate Elongation in Air - Across Flow ASTM D573 135°C, 1000 hr -11 % 150°C, 168 hr -11 % Change in Tensile Strain at Break in Air - Across Flow ISO 188 Change in Tensile Strain at Break in Air - Across Flow 150 188	RTI Elec	50.0	°C	UL 746B
Aging Nominal Value Unit Test Method Change in Tensile Strength in Air - Across Flow 2.0 % 3.5 °C, 1000 hr 2.0 % 2.0 % 3.0 %<	RTI Imp	50.0	°C	UL 746B
Change in Tensile Strength in Air - Across Flow ASTM D573 135°C, 1000 hr 2.0 % 100% Strain, 135°C, 1000 hr 16 % 150°C, 168 hr -5.0 % 100% Strain, 150°C, 168 hr 8.0 % Change in Tensile Strength in Air - Across Flow ISO 188 135°C, 1000 hr 2.0 % 100% Strain 135°C, 1000 hr 16 % 150°C, 168 hr -5.0 % 100% Strain 150°C, 168 hr 8.0 % Change in Ultimate Elongation in Air - Across Flow ASTM D573 135°C, 1000 hr -11 % Change in Tensile Strain at Break in Air - Across Flow ISO 188 Change in Tensile Strain at Break in Air - Across Flow ISO 188	RTI Str	50.0	°C	UL 746B
135°C, 1000 hr 2.0 % 100% Strain, 135°C, 1000 hr 16 % 150°C, 168 hr -5.0 % 100% Strain, 150°C, 168 hr 8.0 % Change in Tensile Strength in Air - Across Flow ISO 188 135°C, 1000 hr 2.0 % 100% Strain 135°C, 1000 hr 16 % 150°C, 168 hr -5.0 % 100% Strain 150°C, 168 hr 8.0 % Change in Ultimate Elongation in Air - Across Flow ASTM D573 135°C, 1000 hr -11 % Change in Tensile Strain at Break in Air - Across Flow ISO 188 135°C, 1000 hr -11 %	Aging	Nominal Value	Unit	Test Method
100% Strain, 135°C, 1000 hr 16 % 150°C, 168 hr -5.0 % 100% Strain, 150°C, 168 hr 8.0 % Change in Tensile Strength in Air - Across Flow ISO 188 135°C, 1000 hr 2.0 % 100% Strain 135°C, 1000 hr 16 % 150°C, 168 hr -5.0 % 100% Strain 150°C, 168 hr 8.0 % Change in Ultimate Elongation in Air - Across Flow ASTM D573 135°C, 1000 hr -11 % 150°C, 168 hr -11 % Change in Tensile Strain at Break in Air - Across Flow ISO 188 135°C, 1000 hr -11 %	Change in Tensile Strength in Air - Across Flow			ASTM D573
150°C, 168 hr -5.0 % 100% Strain, 150°C, 168 hr 8.0 % Change in Tensile Strength in Air - Across Flow ISO 188 135°C, 1000 hr 2.0 % 100% Strain 135°C, 1000 hr 16 % 150°C, 168 hr -5.0 % 100% Strain 150°C, 168 hr 8.0 % Change in Ultimate Elongation in Air - Across Flow ASTM D573 135°C, 1000 hr -11 % Change in Tensile Strain at Break in Air - Across Flow ISO 188 135°C, 1000 hr -11 %	135°C, 1000 hr	2.0	%	
100% Strain, 150°C, 168 hr 8.0 % Change in Tensile Strength in Air - Across Flow ISO 188 135°C, 1000 hr 2.0 % 100% Strain 135°C, 1000 hr 16 % 150°C, 168 hr -5.0 % 100% Strain 150°C, 168 hr 8.0 % Change in Ultimate Elongation in Air - Across Flow ASTM D573 135°C, 1000 hr -11 % 150°C, 168 hr -11 % Change in Tensile Strain at Break in Air - Across Flow ISO 188 135°C, 1000 hr -11 %	100% Strain, 135°C, 1000 hr	16	%	
Change in Tensile Strength in Air - Across Flow ISO 188 135°C, 1000 hr 2.0 % 100% Strain 135°C, 1000 hr 16 % 150°C, 168 hr -5.0 % 100% Strain 150°C, 168 hr 8.0 % Change in Ultimate Elongation in Air - Across Flow ASTM D573 135°C, 1000 hr -11 % 150°C, 168 hr -11 % Change in Tensile Strain at Break in Air - Across Flow ISO 188 135°C, 1000 hr -11 %	150°C, 168 hr	-5.0	%	
135°C, 1000 hr 2.0 % 100% Strain 135°C, 1000 hr 16 % 150°C, 168 hr -5.0 % 100% Strain 150°C, 168 hr 8.0 % Change in Ultimate Elongation in Air - Across Flow 135°C, 1000 hr -11 % 150°C, 168 hr -11 % Change in Tensile Strain at Break in Air - Across Flow 135°C, 1000 hr -11 %	100% Strain, 150°C, 168 hr	8.0	%	
100% Strain 135°C, 1000 hr 16 % 150°C, 168 hr -5.0 % 100% Strain 150°C, 168 hr 8.0 % Change in Ultimate Elongation in Air - Across Flow ASTM D573 135°C, 1000 hr -11 % 150°C, 168 hr -11 % Change in Tensile Strain at Break in Air - Across Flow ISO 188 135°C, 1000 hr -11 %	Change in Tensile Strength in Air - Across Flow			ISO 188
150°C, 168 hr -5.0 % 100% Strain 150°C, 168 hr 8.0 % Change in Ultimate Elongation in Air - Across Flow ASTM D573 135°C, 1000 hr -11 % 150°C, 168 hr -11 % Change in Tensile Strain at Break in Air - Across Flow ISO 188 135°C, 1000 hr -11 %	135°C, 1000 hr	2.0	%	
100% Strain 150°C, 168 hr 8.0 % Change in Ultimate Elongation in Air - Across Flow ASTM D573 135°C, 1000 hr -11 % 150°C, 168 hr -11 % Change in Tensile Strain at Break in Air - Across Flow ISO 188 135°C, 1000 hr -11 %	100% Strain 135°C, 1000 hr	16	%	
Change in Ultimate Elongation in Air - Across Flow ASTM D573 135°C, 1000 hr -11 % 150°C, 168 hr -11 % Change in Tensile Strain at Break in Air - Across Flow ISO 188 135°C, 1000 hr -11 %	150°C, 168 hr	-5.0	%	
135°C, 1000 hr 150°C, 168 hr -11 % Change in Tensile Strain at Break in Air - Across Flow 135°C, 1000 hr ISO 188 -11 %	100% Strain 150°C, 168 hr	8.0	%	
150°C, 168 hr Change in Tensile Strain at Break in Air - Across Flow ISO 188 135°C, 1000 hr -11 %	Change in Ultimate Elongation in Air - Across Flow			ASTM D573
Change in Tensile Strain at Break in Air - Across Flow ISO 188 135°C, 1000 hr -11 %	135°C, 1000 hr	-11	%	
135°C, 1000 hr -11 %	150°C, 168 hr	-11	%	
	Change in Tensile Strain at Break in Air - Across Flow			ISO 188
15,000,100 h	135°C, 1000 hr	-11	%	
150°C, 168 hr -11 %	150°C, 168 hr	-11	%	

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Aging	Nominal Value Unit	Test Method
Change in Durometer Hardness in Air		ASTM D573
Shore D, 135°C, 1000 hr	1.0	
Shore D, 150°C, 168 hr	2.0	
Change in Shore Hardness in Air		ISO 188
Shore D, 135°C, 1000 hr	1.0	
Shore D, 150°C, 168 hr	2.0	
Change in Volume (125°C, 70 hr, in IRM 903 Oil)	52 %	ASTM D471
Change in Volume (125°C, 70 hr, in IRM 903 Oil)	52 %	ISO 1817
Flammability	Nominal Value Unit	Test Method
Flame Rating (1.5 mm, Natural and Black Colors)	НВ	UL 94
Additional Information	Nominal Value Unit	Test Method
Apparent Shear Viscosity - Capillary, @ 206/s		
200°C	310 Pa·s	ASTM D3835
200°C	310 Pa·s	ISO 11443

Legal Statement

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Processing Information				
Injection	Nominal Value	Unit		
Drying Temperature	82	°C		
Drying Time	3.0	hr		
Rear Temperature	180 to 215	°C		
Middle Temperature	180 to 215	°C		
Front Temperature	180 to 215	°C		
Nozzle Temperature	187 to 220	°C		
Processing (Melt) Temp	185 to 220	°C		
Mold Temperature	10 to 55	°C		
Back Pressure	0.100 to 1.00	MPa		
Screw Speed	100 to 200	rpm		
Extrusion	Nominal Value	Unit		
Drying Temperature	82	°C		
Drying Time	3.0	hr		
Cylinder Zone 1 Temp.	180 to 200	°C		
Cylinder Zone 2 Temp.	180 to 205	°C		
Cylinder Zone 3 Temp.	187 to 210	°C		
Cylinder Zone 4 Temp.	187 to 210	°C		
Melt Temperature	195 to 215	°C		
Die Temperature	195 to 215	°C		
Take-Off Roll	20 to 50	°C		
Extrusion Notes				

Screen Pack: 20 to 60 mesh Screw: general purpose

Compression Ratio: 3:1

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Teknor Apex Company - Thermoplastic Vulcanizate

Notes

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¹ Typical properties: these are not to be construed as specifications.

² Method Ba, Angle (Unnicked)

Teknor Apex Company Corporate Headquarters	Teknor Apex B.V.	Teknor Apex (Suzhou) Advanced Polymer Compounds Co. Pte. Ltd.	Teknor Apex Asia Pacific PTE. LTD.
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Engineered Thermoplastics (Chem Polymer) 505 Central Avenue	6167 RD Geleen, Netherlands	Suzhou Industrial Park Jiangsu, China 215126	Singapore 628134
Pawtucket, Rhode Island 02861 U.S.	Phone: +31 46 7020 950		Phone: (65) 6265-2544
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