

Telcar® TL-2934T

Teknor Apex Company - Thermoplastic Elastomer

Saturday, September 14, 2024

General Information

Product Description

Telcar TL-2934T is a high performance V-0 flame retardant thermoplastic elastomer designed for electrical applications requiring flexibility over a wide temperature range. Telcar TL-2934T is a high hardness, high density, low flow grade that is UV stabilized and RoHS compliant. This grade is easily colorable and is suitable for both injection molding and extrusion

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Brominated • Filled • Flame Retardant • Good Colorability	• Good Electrical Properties • Halogenated • High Density • High Hardness	• High Specific Gravity • Low Flow • Sunlight Resistant • UV Resistant
Uses	• Cable Jacketing • Electrical/Electronic Applications	• Flame Retardant Insulation • Industrial Applications	• Ribbons
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.30	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	15.2	MPa	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	40		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-50.0	°C	ASTM D746
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (158°C, 168 hr)	-11	%	ASTM D573
Change in Ultimate Elongation in Air (158°C, 168 hr)	-33	%	ASTM D573
Change in Tensile Strength 60°C, 168 hr, in IRM 902 Oil	-8.0	%	ASTM D471
Change in Ultimate Elongation 60°C, 168 hr, in IRM 902 Oil	-6.0	%	ASTM D471
Electrical	Nominal Value	Unit	Test Method
Dielectric Constant (1 kHz)	2.50		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.0 mm, NC)	V-0		UL 94
Oxygen Index	28	%	ASTM D2863

Revision Date: 3/30/2017

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Legal Statement

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	171 to 193	°C
Middle Temperature	177 to 199	°C
Front Temperature	182 to 204	°C
Nozzle Temperature	188 to 210	°C
Processing (Melt) Temp	188 to 210	°C
Mold Temperature	25 to 66	°C
Injection Pressure	1.38 to 6.89	MPa
Injection Rate	Moderate-Fast	
Back Pressure	0.172 to 0.345	MPa
Screw Speed	50 to 100	rpm
Cushion	3.81 to 25.4	mm

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	166 to 188	°C
Cylinder Zone 2 Temp.	171 to 193	°C
Cylinder Zone 3 Temp.	177 to 199	°C
Cylinder Zone 4 Temp.	177 to 199	°C
Cylinder Zone 5 Temp.	182 to 204	°C
Die Temperature	190 to 210	°C

Extrusion Notes

Screw Speed: 30 to 100 rpm

Notes

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

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