🚸 TEKNOR APEX

Chemion[®] 113 GH Teknor Apex Company - Polyamide 66

General Information

Product Description

Chemlon® 113 GH is a 13% glass fiber reinforced, heat stabilized polyamide 66 (PA 66) designed for injection molding. This high tensile strength material has a wide processing window, provides a good surface appearance, and is available globally.

Material Status	Commercial: Active		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Additive	Heat Stabilizer		
Features	 Good Processability Good Surface Finish	 Good Thermal Stability High Tensile Strength	
RoHS Compliance	Contact Manufacturer		
Automotive Specifications	 CHRYSLER MS-DB-41 CPN2239 Color: BK001 Black¹ FORD ESA-M4D349-A¹ CHRYSLER MS-DB-41 CPN3794 GM GMP.PA66.020 Color: Black¹ GM GMW3038P-PA66-GF Color: Non-matched Color¹ GM GMP.PA66.020 Color: Color: Black¹ CHRYSLER MS-DB-41 CPN4061 Color: 100% Color Match¹ 		
Forms	• Pellets		
Processing Method	Injection Molding		

ASTM & ISO Properties ²				
Physical	Dry	Conditioned	Unit	Test Method
Density	1.22		g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.40 to 0.70		%	ISO 294-4
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7300	4160	MPa	ISO 527-1
Tensile Stress	119	76.5	MPa	ISO 527-2
Tensile Strain (Break)	2.2	16	%	ISO 527-2
Flexural Modulus	4650	3410	MPa	ISO 178
Flexural Stress	170	94.4	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	2.8	3.3	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	27	40	kJ/m ²	ISO 179
Notched Izod Impact Strength	> 3.0	> 3.3	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/B
0.45 MPa, Unannealed	249		°C	
Deflection Temperature Under Load				ISO 75-2/A
1.8 MPa, Unannealed	215		°C	
Melting Temperature	257		°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15		ohms∙cm	ASTM D257
Dielectric Strength (3.00 mm)	18		kV/mm	ASTM D149
Comparative Tracking Index (CTI)	600		V	UL 746A

Revision Date: 7/31/2020

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Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.8 mm)	HB			UL 94
Oxygen Index	25		%	ASTM D2863

Legal Statement	
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	Processing Information
Injection	Dry Unit
Drying Temperature	80 °C
Suggested Max Moisture	0.17 %
Processing (Melt) Temp	265 to 293 °C
Mold Temperature	77 to 88 °C
Injection Notes	

Injection Notes

Maximum peak injection pressure should not exceed 80% of the machine's maximum pressure capability. Start with a holding pressure that is half the peak injection pressure. Perform a rheology curve in order to determine appropriate injection rate.

Notes

¹ Automotive site approvals apply for US manufactured compound only

² Typical properties: these are not to be construed as specifications.

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