🚸 TEKNOR APEX

Chemion[®] 133 GH Teknor Apex Company - Polyamide 66

General Information

Product Description

Chemlon® 133 GH is a 33% 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.

General		
Material Status	Commercial: Active	
Availability	 Africa & Middle East Asia Pacific Latin America 	North America
Additive	Heat Stabilizer	
Features	 Good Processability Good Surface Finish Good Surface Finish High Tensile Strength 	
RoHS Compliance	Contact Manufacturer	
Automotive Specifications	 3M 11-0003-5762-1¹ CHRYSLER MS-DB-41 CPN1900 FORD ESB-M4D133-A¹ Color: BK001 Black¹ FORD ESB-M4D89-A¹ CHRYSLER MS-DB-41 CPN2224 FORD WSK-M4D663-A¹ Color: Non-matched Color¹ 	 GM GMP.PA66.013 Color: Natural ¹ GM GMW3038P-PA66-GF35H ¹
Forms	• Pellets	
Processing Method	Injection Molding	

ASTM & ISO Properties ²				
Physical	Dry	Conditioned	Unit	Test Method
Density	1.38		g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.30		%	
Flow	0.10		%	
Water Absorption (24 hr, 23°C)	0.60		%	ISO 62
Water Absorption				ISO 62
Saturation, 23°C	2.0		%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	13600	8670	MPa	ISO 527-2
Tensile Stress	189	126	MPa	ISO 527-2
Tensile Strain (Break)	2.4	4.8	%	ISO 527-2
Flexural Modulus	9000	6500	MPa	ISO 178
Flexural Stress	260	169	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	7.0	10	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	53	70	kJ/m ²	ISO 179
Notched Izod Impact Strength				ISO 180
23°C	7.0	10	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/B
0.45 MPa, Unannealed	255		°C	
Deflection Temperature Under Load				ISO 75-2/A
1.8 MPa, Unannealed	240		°C	
Melting Temperature	259		°C	

Revision Date: 7/29/2024

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or by others. There is no warranty of merchantability and there are no other warranties for the products described.

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Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.8 mm)	HB			UL 94
Logal Statement				

Legal Statement	
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	more countries.

	Processing Information
Injection	Dry Unit
Drying Temperature	80 °C
Suggested Max Moisture	0.13 %
Processing (Melt) Temp	265 to 293 °C
Mold Temperature	77 to 88 °C

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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