+135-3858-6433 (GuangDong)
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TEKNOR APEX

Chemlon® 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	• Europe • Latin America	• North America
Additive	• Heat Stabilizer		
Features	• Good Processability • Good Surface Finish	• Good Thermal Stability • High Tensile Strength	
RoHS Compliance	• Contact Manufacturer		
Automotive Specifications	• 3M 11-0003-5762-1 [1] • FORD ESB-M4D133-A [1] • FORD ESB-M4D89-A [1] • FORD WSK-M4D663-A [1] • GM GMP.PA66.013 Color: Natural [1] • GM GMW3038P-PA66-GF35H [1] • STELLANTIS MS-DB-41 CPN1900 Color: BK001 Black [1] • STELLANTIS MS-DB-41 CPN2224 Color: Non-matched Color [1]		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [2]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.38	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.30	--	%	
Flow	0.10	--	%	
Water Absorption (24 hr, 73°F)	0.60	--	%	ISO 62
Water Absorption				ISO 62
Saturation, 73°F	2.0	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.97E+6	1.26E+6	psi	ISO 527-2
Tensile Stress	27400	18300	psi	ISO 527-2
Tensile Strain (Break)	2.4	4.8	%	ISO 527-2
Flexural Modulus	1.31E+6	943000	psi	ISO 178
Flexural Stress	37700	24500	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength	3.3	4.8	ft·lb/in²	ISO 179
Charpy Unnotched Impact Strength	25	33	ft·lb/in²	ISO 179
Notched Izod Impact Strength				ISO 180
73°F	3.3	4.8	ft·lb/in²	

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Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/B
66 psi, Unannealed	491	--	°F	
Deflection Temperature Under Load				ISO 75-2/A
264 psi, Unannealed	464	--	°F	
Melting Temperature	498	--	°F	
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating (0.03 in)	HB	--		UL 94

Processing Information

Injection	Dry	Unit
Drying Temperature	176	°F
Suggested Max Moisture	0.13	%
Processing (Melt) Temp	509 to 559	°F
Mold Temperature	171 to 190	°F

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.