

Chemlon® 233 GH

Teknor Apex Company - Polyamide 6

Saturday, September 14, 2024

General Information					
Product Description					
Chemlon® 233 GH is a 33% glass fi provides a good surface appearance,		(PA 6) designed for injection moldin	ng. This material has a wide processing window,		
General					
Material Status	Commercial: Active				
Availability	Africa & Middle East	• Europe	North America		
Availability	 Asia Pacific 	 Latin America 	• North America		
Additive	Heat Stabilizer				
Features	 Good Processability 	 Good Thermal Stability 			
	 Good Surface Finish 	 High Tensile Strength 			
RoHS Compliance	Contact Manufacturer				
Automotive Specifications	• GM GMP.PA6.009 Color: Bl	ack 1 • GM GMP.PA6.009 Color:	: Natural 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 - Flow	0.20 to 0.40		%	ISO 294-4		
Molding Shrinkage - Across Flow	0.40 to 0.60		%	ISO 294-4		
Water Absorption (24 hr, 23°C)	0.90		%	ISO 62		
Water Absorption				ISO 62		
Saturation, 23°C	2.1		%			
Mechanical	Dry	Conditioned	Unit	Test Method		
Tensile Modulus	12200	7460	MPa	ISO 527		
Tensile Stress	160	100	MPa	ISO 527		
Tensile Strain (Break)	3.0	6.0	%	ISO 527		
Flexural Modulus	8270	6210	MPa	ISO 178		
Flexural Stress	230	145	MPa	ISO 178		
Impact	Dry	Conditioned	Unit	Test Method		
Charpy Notched Impact Strength	7.0	10	kJ/m²	ISO 179		
Charpy Unnotched Impact Strength	53	67	kJ/m²	ISO 179		
Notched Izod Impact Strength				ISO 180		
23°C	10	12	kJ/m^2			
Thermal	Dry	Conditioned	Unit	Test Method		
Deflection Temperature Under Load				ISO 75-2/B		
0.45 MPa, Unannealed	218		$^{\circ}\mathrm{C}$			
Deflection Temperature Under Load				ISO 75-2/A		
1.8 MPa, Unannealed	> 200		°C			
Melting Temperature	220		°C			
Flammability	Dry	Conditioned	Unit	Test Method		
Flame Rating (0.8 mm)	НВ			UL 94		

Revision Date: 7/30/2024

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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Legal Statement

Dry

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Processing Information				
Injection	Dry Unit			
Drying Temperature	80 °C			
Suggested Max Moisture	0.13 %			
Processing (Melt) Temp	240 to 260 °C			
Mold Temperature	77 to 88 °C			

Injection Notes

info@teknorapex.com

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.

Teknor Apex Company Corporate Headquarters	Teknor Apex B.V.	Teknor Apex (Suzhou) Advanced Polymer Compounds Co. Pte. Ltd.	Teknor Apex Asia Pacific PTE. LTD.
In U.S. for Vinyls, TPEs, Colorants,	Brightlands Chemelot Campus Umonderbaan 22	No. 78 Ping Sheng Road	41 Shipyard Road
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
	Fax: +31 46 7020 990	Phone: (86) 512-6287-1550	Fax: (65) 6265-1821
Phone: 401-725-8000		Fax: (86) 512-6288-8371	
Fax: 401-725-8095	www.teknorapex.com		www.teknorapex.com
Toll Free (U.S. only) 800-556-3864	tpe@teknorapex.com	www.teknorapex.com infotaap@teknoapex.com	infotaap@teknorapex.com
www.teknoranex.com			

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