🚸 TEKNOR APEX

Chemion[®] 106 H Teknor Apex Company - Polyamide 66

General Information

Product Description

Chemlon® 106H is an impact modified polyamide 66 (PA 66) designed for injection molding and extrusion. This toughened material offers strength and flexibility, even at low tempertures; and is available globally.

Material Status	Commercial: Active		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Additive	Heat Stabilizer	Impact Modifier	
Features	Good Toughness	Low Temperature Toughness	
RoHS Compliance	Contact Manufacturer		
Automotive Specifications	• DAIMLER DBL 5410.00 ¹		
Forms	• Pellets		
Processing Method	Extrusion	Injection Molding	

ASTM & ISO Properties ²				
Physical	Dry	Conditioned	Unit	Test Method
Density	1.11		g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.6		%	
Flow	1.5		%	
Water Absorption (24 hr, 23°C)	1.3		%	ISO 62
Water Absorption				ISO 62
Saturation, 23°C	7.2		%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2450	882	MPa	ISO 527
Tensile Stress	58.0	45.0	MPa	ISO 527
Tensile Strain (Break)	50	190	%	ISO 527
Flexural Modulus	2000	789	MPa	ISO 178
Flexural Stress	80.0	23.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
23°C	25	110	kJ/m ²	
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact Strength				ISO 180
23°C	20	96	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/B
0.45 MPa, Unannealed	215		°C	
Deflection Temperature Under Load				ISO 75-2/A
1.8 MPa, Unannealed	70.0		°C	
Melting Temperature	259		°C	ISO 11357
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.8 mm)	HB			UL 94

Revision Date: 8/1/2024

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

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	product names, shall not be used or tested in medical or food contact applications without the prior written
	acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or
	more countries.

	Processing Information
Injection	Dry Unit
Drying Temperature	80 °C
Suggested Max Moisture	0.20 %
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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