



Chemlon® 105 H

Teknor Apex Company - Polyamide 66

General Information

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Automotive Specifications	• MERCEDES BENZ DBL 5403 ¹
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ²

Physical	Nominal Value	Unit	Test Method
Density	1.11	g/cm ³	ISO 1183
Molding Shrinkage	1.5 to 2.4	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	9140	psi	ISO 527
Tensile Strain (Yield)	5.0	%	ISO 527
Tensile Strain (Break)	> 30	%	ISO 527
Flexural Modulus	348000	psi	ISO 178/A
Flexural Stress	12300	psi	ISO 178/A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (73°F)	7.6	ft-lb/in ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	176	°F	
Melting Temperature	500	°F	ISO 11357
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.031 in)	HB		UL 94

Notes

¹ Automotive site approvals apply for US manufactured compound only

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