

Chemlon® 140 BH

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 140 BH is a Polyamide 66 (Nylon 66) material filled with glass bead. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Chemlon® 140 BH: Flame Rated.

General Information			
Filler / Reinforcement	Glass Bead		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	g/cm ³	ASTM D792
Molding Shrinkage - Flow ¹	1.0 to 1.5	%	ASTM D955
Water Absorption (24 hr)	0.90	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	86.2	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	3.0	%	
Break	4.0	%	
Flexural Modulus	4720	MPa	ASTM D790
Flexural Strength	134	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	242	°C	
1.8 MPa, Unannealed	215	°C	
Melting Temperature	257	°C	ASTM D789
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength (3.00 mm)	15	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating ² (0.810 mm)	HB		UL 94
Oxygen Index	27	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Suggested Max Moisture	0.20	%	
Suggested Max Regrind	25	%	
Rear Temperature	241 to 257	°C	

Middle Temperature	257 to 271	°C
Front Temperature	263 to 279	°C
Nozzle Temperature	263 to 282	°C
Processing (Melt) Temp	263 to 282	°C

NOTE

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| 1. | Dependent upon molding conditions particularly Mold temperature. |
| 2. | Chem Polymer measurement according to UL. |

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Recommended distributors for this material

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