

Chemlon® 280

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 280 is a Polyamide 6 (Nylon 6) material. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Chemlon® 280: Flame Rated.

General Information			
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.8 to 2.3	%	ASTM D955
Water Absorption (24 hr)	0.80	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	41.4	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	7.0	%	
Break	150	%	
Flexural Modulus	1620	MPa	ASTM D790
Flexural Strength	55.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	290	J/m	
23°C	1200	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	135	°C	
1.8 MPa, Unannealed	51.7	°C	
Melting Temperature	217	°C	DSC
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+18	ohms · cm	ASTM D257
Dielectric Strength (3.00 mm)	10	kV/mm	ASTM D149
Comparative Tracking Index (CTI)	500	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.810 mm)	HB		UL 94
Oxygen Index	20	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Suggested Max Moisture	0.20	%	

Rear Temperature	218 to 235	°C
Middle Temperature	241 to 257	°C
Front Temperature	246 to 268	°C
Nozzle Temperature	246 to 268	°C
Processing (Melt) Temp	249 to 266	°C

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Recommended distributors for this material

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