

Chemlon® 282

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 282 is a Polyamide 6 (Nylon 6) material. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Chemlon® 282 are:

- Flame Rated
- Flame Retardant
- Halogen Free

General Information			
UL YellowCard	E90654-252574	E142591-100088079	
Additive	Flame Retardant		
Features	Flame Retardant		
	General Purpose		
	Halogen Free		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/1.0 kg)	13	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.90 to 1.4	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	72.4	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	6.0	%	
Break	6.0	%	
Flexural Modulus	3140	MPa	ASTM D790
Flexural Strength	96.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	79.4	°C	ASTM D648
Melting Temperature	216	°C	DSC
RTI Elec			UL 746
0.810 mm	130	°C	
1.50 mm	130	°C	
3.00 mm	130	°C	

RTI Imp			UL 746
0.810 mm	105	°C	
1.50 mm	105	°C	
3.00 mm	105	°C	
RTI Str			UL 746
0.810 mm	120	°C	
1.50 mm	120	°C	
3.00 mm	120	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (3.00 mm)	15	kV/mm	ASTM D149
Comparative Tracking Index (CTI)	600	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.630 mm)	V-0		UL 94
Oxygen Index	32	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Suggested Max Moisture	0.20	%	
Suggested Max Regrind	25	%	
Rear Temperature	218 to 235	°C	
Middle Temperature	229 to 252	°C	
Front Temperature	241 to 260	°C	
Nozzle Temperature	241 to 260	°C	
Processing (Melt) Temp	241 to 260	°C	

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Recommended distributors for this material

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