



Chemlon® 282

Teknor Apex Company - Polyamide 6

General Information

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Additive	• Flame Retardant		
Features	• Flame Retardant	• General Purpose	• Halogen Free
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Molding Shrinkage	1.1 to 1.5	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	421000	psi	ISO 527
Tensile Stress	10900	psi	ISO 527
Tensile Strain (Break)	5.0	%	ISO 527
Flexural Modulus	450000	psi	ISO 178/A
Flexural Stress	12300	psi	ISO 178/A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (73°F)	1.7	ft-lb/in ²	ISO 180/A
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	176	°F	ISO 75-2/A
Melting Temperature	428	°F	DSC
RTI Elec			UL 746B
0.03 in	266	°F	
0.06 in	266	°F	
0.12 in	266	°F	
RTI Imp			UL 746B
0.03 in	221	°F	
0.06 in	221	°F	
0.12 in	221	°F	
RTI Str			UL 746B
0.03 in	248	°F	
0.06 in	248	°F	
0.12 in	248	°F	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (0.118 in)	380	V/mil	ASTM D149
Comparative Tracking Index	> 600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.025 in)	V-0		UL 94
Oxygen Index	32	%	ISO 4589-2

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Injection	Nominal Value	Unit
Drying Temperature	175	°F
Suggested Max Moisture	0.20	%
Suggested Max Regrind	25	%
Rear Temperature	425 to 455	°F
Middle Temperature	445 to 485	°F
Front Temperature	465 to 500	°F
Nozzle Temperature	465 to 500	°F
Processing (Melt) Temp	465 to 500	°F

Notes

¹ Typical properties: these are not to be construed as specifications.