



PTS- Creamid B3H2GYFR*800

Teknor Apex Company (Chem Polymer) - Polyamide 6

General Information

General

Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Forms	• Pellets		

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.39	1.39	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	0.90	%	
Flow	0.80	0.80	%	
Water Absorption (24 hr, 73°F)	2.0	2.0	%	ISO 62
Water Absorption Saturation, 73°F	5.0	5.0	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.02E+6	653000	psi	ISO 527-2
Tensile Stress (Break)	16000	9430	psi	ISO 527-2
Tensile Strain (Break)	5.0	50	%	ISO 527-2
Flexural Modulus (73°F)	812000	--	psi	ISO 178
Flexural Stress	19600	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-22°F	1.9	--	ft·lb/in ²	
73°F	3.3	3.3	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179
-22°F	24	--	ft·lb/in ²	
73°F	24	19	ft·lb/in ²	
Notched Izod Impact Strength				ISO 180
73°F	3.3	--	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/B
66 psi, Unannealed	415	415	°F	
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	370	370	°F	
Melting Temperature	432	432	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index	--	550	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.031 in	V-2	--		
0.06 in	V-2	--		
0.13 in	V-2	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.06 in	1560	--	°F	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.06 in	1200	--	°F	

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Flammability	Dry	Conditioned	Unit	Test Method
Oxygen Index	24	--	%	ISO 4589-2

Processing Information		
Injection	Dry	Unit
Drying Temperature	176	°F
Drying Time	2.0 to 4.0	hr
Nozzle Temperature	500	°F
Processing (Melt) Temp	464 to 518	°F
Mold Temperature	140 to 194	°F

Notes

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