



PTS- Creamid B3H2G10*9000

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	1.59	1.59	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.1	1.1	%	
Flow	0.50	0.50	%	
Water Absorption (24 hr, 73°F)	0.50	0.50	%	ISO 62
Water Absorption				ISO 62
Saturation, 73°F	4.1	4.1	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2.41E+6	1.83E+6	psi	ISO 527-2
Tensile Stress (Break)	32600	24700	psi	ISO 527-2
Tensile Strain (Break)	3.4	3.9	%	ISO 527-2
Flexural Modulus (73°F)	1.99E+6	1.55E+6	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
73°F	5.7	6.2	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179
73°F	36	36	ft·lb/in ²	
Notched Izod Impact Strength				ISO 180
73°F	5.7	6.7	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/B
66 psi, Unannealed	428	428	°F	
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	419	419	°F	
Vicat Softening Temperature				
--	433	433	°F	ISO 306/A
--	424	424	°F	ISO 306/B
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	HB	--		
0.06 in	HB	--		
0.13 in	HB	--		

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Processing Information		
Injection	Dry	Unit
Drying Temperature	176	°F
Drying Time	2.0 to 4.0	hr
Nozzle Temperature	518	°F
Processing (Melt) Temp	491 to 527	°F
Mold Temperature	158 to 212	°F

Notes

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