



PTS- Creamid P2H7G6*9217

Teknor Apex Company (Chem Polymer) - Polyamide 6

General Information

General

Material Status	• Commercial: Active	
Availability	• Europe	• North America
Forms	• Pellets	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.70	%	
Flow	0.30	%	
Water Absorption (24 hr, 73°F)	0.40	%	ISO 62
Water Absorption (Saturation, 73°F)	4.8	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.39E+6	psi	ISO 527
Tensile Stress (Break)	26100	psi	ISO 527
Tensile Strain (Break)	3.5	%	ISO 527
Flexural Modulus	1.10E+6	psi	ISO 178
Flexural Stress	33400	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.3	ft-lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	24	ft-lb/in ²	ISO 179/1eU
Notched Izod Impact Strength (73°F)	4.3	ft-lb/in ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	419	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	383	°F	ISO 75-2/A
Vicat Softening Temperature			
--	410	°F	ISO 306 ²
--	392	°F	ISO 306 ³

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	2.0 to 4.0	hr
Rear Temperature	482	°F
Middle Temperature	500	°F
Front Temperature	518	°F
Nozzle Temperature	518	°F
Processing (Melt) Temp	464 to 518	°F
Mold Temperature	158 to 212	°F

Notes

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

² 120°C/h, A (10N)

³ 50°C/h, B (50N)