



PTS- Creamid P3H2G12*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	1.71	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.80	%	
Flow	0.70	%	
Water Absorption (24 hr, 73°F)	0.40	%	ISO 62
Water Absorption (Saturation, 73°F)	2.8	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2.74E+6	psi	ISO 527
Tensile Stress (Break)	30500	psi	ISO 527
Tensile Strain (Break)	2.8	%	ISO 527
Flexural Modulus (73°F)	2.47E+6	psi	ISO 178
Flexural Stress	42100	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	5.7	ft-lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	30	ft-lb/in ²	ISO 179/1eU
Notched Izod Impact Strength (73°F)	6.2	ft-lb/in ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	428	°F	ISO 75-2
Heat Deflection Temperature (264 psi, Unannealed)	401	°F	ISO 75-2
Vicat Softening Temperature			
--	419	°F	ISO 306 ²
--	410	°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	482 to 536	°F
Mold Temperature	158 to 212	°F

Notes

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

² 50°C/h, A (10N)

³ 50°C/h, B (50N)