



Creamid® P3H2G10*9217

Teknor Apex Company - Polyamide 6

General Information

General

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

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.58	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.40	--	%	
Water Absorption (24 hr, 73°F)	0.30	--	%	ISO 62
Water Absorption				ISO 62
Saturation, 73°F	3.2	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2.25E+6	1.90E+6	psi	ISO 527
Tensile Stress (Break)	29700	24700	psi	ISO 527
Tensile Strain (Break)	3.3	3.5	%	ISO 527
Flexural Modulus	2.03E+6	1.74E+6	psi	ISO 178
Flexural Stress	43500	35500	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
73°F	5.2	5.2	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
73°F	33	36	ft·lb/in ²	
Notched Izod Impact Strength				ISO 180/A
73°F	6.2	6.7	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/B
66 psi, Unannealed	410	--	°F	
Deflection Temperature Under Load				ISO 75-2/A
264 psi, Unannealed	392	--	°F	
Vicat Softening Temperature				
--	401	--	°F	ISO 306 ²
--	419	--	°F	ISO 306 ³
Melting Temperature	432	--	°F	ISO 11357
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.031 in	HB	--		
0.06 in	HB	--		
0.08 in	HB	--		

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Processing Information

Injection	Dry	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, B (50N)

³ 120°C/h, A (10N)