



Creamid® A3H2G5FRSE

Teknor Apex Company - Polyamide 66

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	1.40	1.37	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.3	1.3	%	
Flow	0.30	0.30	%	
Water Absorption (24 hr, 73°F)	0.60	0.60	%	ISO 62
Water Absorption				ISO 62
Saturation, 73°F	3.8	3.8	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				
--	1.35E+6	--	psi	ISO 527-1
--	--	1.15E+6	psi	ISO 527-2
Tensile Stress (Break)	20300	16000	psi	ISO 527-2
Tensile Strain (Break)	3.7	3.7	%	ISO 527-2
Flexural Modulus (73°F)	1.16E+6	914000	psi	ISO 178
Flexural Stress	26100	20300	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-22°F	2.9	--	ft·lb/in ²	
73°F	4.3	4.8	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179
73°F	24	24	ft·lb/in ²	
Notched Izod Impact Strength				ISO 180
-22°F	3.3	--	ft·lb/in ²	
73°F	3.8	4.3	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/B
66 psi, Unannealed	473	473	°F	
Deflection Temperature Under Load				ISO 75-2/A
264 psi, Unannealed	455	455	°F	
Vicat Softening Temperature				
--	464	464	°F	ISO 306/B
--	482	482	°F	ISO 306/A
Melting Temperature	509	509	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index	--	600	V	IEC 60112

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Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.016 in	V-0	--		
0.031 in	V-0	V-0		
0.06 in	V-0	--		
0.13 in	V-0	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.031 in	1760	1760	°F	
0.06 in	1760	1760	°F	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.031 in	1430	--	°F	
0.06 in	1470	1470	°F	
Oxygen Index	30	30	%	ISO 4589-2

Processing Information			
Injection	Dry	Unit	
Drying Temperature	176	°F	
Drying Time	2.0 to 4.0	hr	
Nozzle Temperature	554	°F	
Processing (Melt) Temp	536 to 563	°F	
Mold Temperature	176 to 230	°F	

Notes

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