



Creamid® A3H7G8.2S*9217

Teknor Apex Company - Polyamide 66 + PA 6I/6T

General Information

Product Description

Creamid® A3H7G8.2S is a high flow, 40% glass fiber reinforced semi-aromatic polyamide (PA) designed for injection molding; primarily in metal replacement. This material provides an excellent surface finish, retains properties after moisture absorption, and is available globally.

General

Material Status	• Preliminary Data		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.48	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.20	--	%	
Water Absorption (24 hr, 73°F)	0.60	--	%	ISO 62
Water Absorption				ISO 62
Saturation, 73°F	3.7	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.91E+6	1.89E+6	psi	ISO 527-1
Tensile Stress (Break)	31900	30500	psi	ISO 527-2
Tensile Strain (Break)	3.0	3.0	%	ISO 527-2
Flexural Modulus (73°F)	1.52E+6	1.45E+6	psi	ISO 178
Flexural Stress	40600	39900	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
73°F	5.7	5.7	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179
73°F	29	33	ft·lb/in ²	
Notched Izod Impact Strength				ISO 180
73°F	5.7	5.7	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/B
66 psi, Unannealed	491	--	°F	
Deflection Temperature Under Load				ISO 75-2/A
264 psi, Unannealed	455	--	°F	
Vicat Softening Temperature				
--	464	--	°F	ISO 306 ²
--	482	--	°F	ISO 306 ³
Melting Temperature	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
0.031 in	HB	--		
0.06 in	HB	--		
0.13 in	HB	--		

Processing Information			
Injection	Dry Unit		
Drying Temperature	176	°F	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	518	°F	
Middle Temperature	536	°F	
Front Temperature	554	°F	
Nozzle Temperature	554	°F	
Processing (Melt) Temp	536 to 572	°F	
Mold Temperature	176 to 230	°F	

Notes

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

² B (50N)

³ A (10N)