



Creamid® A3H2G10.2S

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

General Information

Product Description

Creamid® A3H2G10.2S is a high flow, 50% 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	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Processability • Good Surface Finish • Good Thermal Stability	• Good Toughness • High Flow • High Tensile Strength	• Low Viscosity
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66+PA6I/6T-GF50		

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.57	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.40	--	%	
Flow	0.10	--	%	
Water Absorption (24 hr, 73°F)	0.40	--	%	ISO 62
Water Absorption				ISO 62
Saturation, 73°F	3.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2.54E+6	2.47E+6	psi	ISO 527
Tensile Stress (Break)	35500	34800	psi	ISO 527
Tensile Strain (Break)	3.0	3.0	%	ISO 527
Flexural Modulus (73°F)	1.96E+6	1.81E+6	psi	ISO 178
Flexural Stress	49300	47900	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
73°F	7.6	8.1	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
73°F	38	38	ft·lb/in ²	
Notched Izod Impact Strength				ISO 180/A
73°F	7.1	7.6	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	
Electrical	Dry	Conditioned	Unit	Test Method
Electric Strength (0.0787 in)	--	840	V/mil	IEC 60243
Comparative Tracking Index				IEC 60112
Solution A	--	600	V	

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Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.031 in	HB	--		
0.06 in	HB	--		
0.08 in	HB	--		
0.13 in	HB	--		
Additional Information	Dry	Conditioned	Unit	Test Method
Fogging	0.20	--	mg	DIN 75201B
Odor ²	3.50	--		VDA 270

Processing Information	
Injection	Dry Unit
Drying Temperature	176 °F
Suggested Max Moisture	0.12 %
Processing (Melt) Temp	536 to 572 °F
Mold Temperature	176 to 230 °F

Injection Notes

Maximum peak injection pressure should not exceed 80% of the machine's maximum pressure capability. Start with a holding pressure that is half the peak

Notes

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

² Method B3