+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

TEKNOR APEX

Creamid® A3H2G12.2S

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

General Information

Product Description

Creamid® A3H2G12.2S is a high flow, 60% 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-GF60		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.73	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.40	%	
Flow	0.20	%	
Water Absorption (24 hr, 73°F)	0.30	%	ISO 62
Water Absorption (Saturation, 73°F)	2.0	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3.05E+6	psi	ISO 527
Tensile Stress (Break)	37700	psi	ISO 527
Tensile Strain (Break)	3.5	%	ISO 527
Flexural Modulus (73°F)	2.47E+6	psi	ISO 178
Flexural Stress	50800	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	9.5	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	43	ft·lb/in²	ISO 179/1eU
Notched Izod Impact Strength (73°F)	9.5	ft·lb/in²	ISO 180/A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	491	°F	ISO 75-2/B
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	482	°F	
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.031 in	HB		
0.06 in	HB		
0.08 in	HB		
0.13 in	HB		

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Processing Information		
Injection	**Nominal Value**	**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.