



PA6+GF30

Polyamide+ Glassfiber

Properties



Properties	Standard	Test Method	Unit	Test Data
Physical Properties				
Specific Gravity	ISO 1183	/	lb/in ³	0.462
Water Absorption	ISO 62	73.4°F/50%RH, equilibrium	%	1.7
Water Absorption	ISO 62	73.4°F, water saturated	%	6
Mechanical Properties				
Tensile Strength at Break	ISO 527	Yield 0.39 in/min	PSI	13.5
Strain at Break	ISO 527	Break 0.39 in/min	%	13
Tensile Modulus	ISO 527	/	PSI	580
Flexural Strength	ISO 178	0.08 in/min	PSI	21.8
Flexural Modulus	ISO 178	0.08 in/min	PSI	696
Charpy Notched Impact Strength	ISO 180	1eA/73.4°F	ft·lb/in ²	6.1
Izod Notched Impact Strength	ISO 179	1eA/73.4°F	ft·lb/in ²	/
Rockwell Hardness	ISO 2039	73.4°F	/	/
Shore Hardness	ISO 868	73.4°F	Shore D	82±2
Thermal Performance				
Melting Point	/	/	°F	437
Maximum Service Temperature		Short-term	°F	334
Maximum Service Temperature		5000 hrs / 20000 hrs	°F	199/181
Minimum Allowable Temperature	/	/	°F	/
Coefficient of Thermal Expansion	ISO 11359	73.4°F to 212°F, average	in/(in·°F)	/
Coefficient of Thermal Expansion	ISO 11359	73.4°F to 302°F, average	in/(in·°F)	/
Temperature of Deflection under Load	ISO 75	261 psi	°F	176
Vicat Softening Temperature	ISO 306	VST/B/50	°F	/
Glass Transition Temperature	ISO 3146	/	°F	/
Thermal Performance				
Dielectric Constant	IEC 60250	1mHZ/73.4°F/50% RH	/	5
Dielectric Dissipation Factor	IEC 60250	1mHZ/73.4°F/50% RH	/	0.12
Dielectric Strength	IEC 60243	73.4°F/50%RH	V/mil	762
Sheet Resistivity	IEC 600093	73.4°F/50%RH	Ω	≥ 10 ¹⁴
Volume Resistivity	IEC 600093	73.4°F/50%RH	Ω·in	≥ 10 ¹⁴
Flammability	UL94	0.118in	/	HB