Staramide BG6U

PA6-GF30 Eurostar Engineering Plastics

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Thermal conductivity of melt	**0.33**	W/(m K)	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**9500**	MPa	ISO 527
Stress at break	**160**	MPa	ISO 527
Strain at break	**3.6**	%	ISO 527
Flexural modulus, 23°C	**8000**	MPa	ISO 178
Charpy impact strength, +23°C	**90**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**75**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**11**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**9**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**11**	kJ/m²	ISO 180/1A
Izod notched impact strength	**9**	kJ/m²	ISO 180/1A
Temperature	**-40**	°C	-
Rockwell hardness	**L 112**	-	ISO 2039-2

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**210**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**220**	°C	ISO 75-1/-2
Vicat softening temperature, B	**215**	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**25**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**85**	E-6/K	ISO 11359-1/-2
Oxygen index	**25**	%	ISO 4589-1/-2
ASTM Data			
UL 94 Flame rating	**HB**	-	UL 94
Thickness tested	**0.75**	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	**3.4**	-	IEC 62631-2-1
Dissipation factor, 1MHz	**160**	E-4	IEC 62631-2-1
Volume resistivity	**>1E13**	Ohm*m	IEC 62631-3-1
Surface resistivity	**>1E15**	Ohm	IEC 62631-3-2
Electric strength	**10**	kV/mm	IEC 60243-1
Comparative tracking index	**500**	-	IEC 60112

Other properties	Value	Unit	Test Standard
Water absorption	**6.5**	%	Sim. to ISO 62
Humidity absorption	**1.8**	%	Sim. to ISO 62
Density	**1360**	kg/m³	ISO 1183

Characteristics

Processing
Injection Molding, Other Extrusion

Features
Low Odor

Delivery form
Pellets

Regional Availability
Europe

Special Characteristics
U.V. stabilized or stable to weather