

Staramide BG4H

PA6-GF20

Eurostar Engineering Plastics

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Thermal conductivity of melt	0.33	W/(m K)	-
Mechanical properties			
ISO Data			
Tensile Modulus	6500	MPa	ISO 527
Strain at break	3.8	%	ISO 527
Flexural modulus, 23°C	5800	MPa	ISO 178
Tensile creep modulus, 1h	145	MPa	ISO 899-1
Charpy impact strength, +23°C	55	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	45	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	7	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	6	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	50	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	8	kJ/m ²	ISO 180/1A
Izod notched impact strength	6	kJ/m ²	ISO 180/1A
Temperature	-40	°C	-
Rockwell hardness	L 123	-	ISO 2039-2
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	198	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	216	°C	ISO 75-1/-2
Vicat softening temperature, B	208	°C	ISO 306
Coeff. of linear therm. expansion, parallel	35	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	95	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
Oxygen index	24	%	ISO 4589-1/-2
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	19.1	mm	-
Electrical properties			
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	20	kV/mm	IEC 60243-1
Comparative tracking index	500	-	IEC 60112
Other properties			
Water absorption	6.8	%	Sim. to ISO 62
Humidity absorption	1.4	%	Sim. to ISO 62
Density	1270	kg/m ³	ISO 1183

Characteristics**Processing**

Injection Molding, Other Extrusion

Features

Low Odor

Delivery form

Pellets

Regional Availability

Europe

Special Characteristics

Heat stabilized or stable to heat