

Staramide B40

PA6

Eurostar Engineering Plastics

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Thermal conductivity of melt	0.29	W/(m K)	-
Mechanical properties			
ISO Data			
Tensile Modulus	3100	MPa	ISO 527
Yield stress	80	MPa	ISO 527
Yield strain	4	%	ISO 527
Strain at break	15	%	ISO 527
Flexural modulus, 23°C	2650	MPa	ISO 178
Charpy impact strength, +23°C	270	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	270	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	3	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	3	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	100	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	5	kJ/m ²	ISO 180/1A
Izod notched impact strength	3	kJ/m ²	ISO 180/1A
Temperature	-40	°C	-
Rockwell hardness	R 121	-	ISO 2039-2
Ball indentation hardness	121	MPa	ISO 2039-1
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	65	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	180	°C	ISO 75-1/-2
Vicat softening temperature, B	217	°C	ISO 306
Coeff. of linear therm. expansion, parallel	70	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	70	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	0.75	mm	-
Electrical properties			
ISO Data			
Relative permittivity, 1MHz	3	-	IEC 62631-2-1
Dissipation factor, 1MHz	180	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	16	kV/mm	IEC 60243-1
Comparative tracking index	600	-	IEC 60112
Other properties			
Water absorption	10	%	Sim. to ISO 62
Humidity absorption	2.35	%	Sim. to ISO 62
Density	1130	kg/m ³	ISO 1183

Characteristics**Processing**

Other Extrusion

Features

Low Odor

Delivery form

Pellets

Regional Availability

Europe