

Product Texts

For: Lighting and LED.

Thermal conductivity (23°C in-plane): 18 W/mK (ASTM E 1461-01)

Thermal conductivity (23°C through-plane): 2 W/mK (ASTM E 1461-01)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.1	%	ISO 294-4, 2577
Molding shrinkage, normal	0.1	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6700	MPa	ISO 527
Nominal strain at break	1	%	ISO 527
Stress at break	38	MPa	ISO 527
Strain at break	1	%	ISO 527
Flexural modulus, 23°C	7800	MPa	ISO 178
Charpy impact strength, +23°C	5	kJ/m ²	ISO 179/1eU

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	126	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	132	°C	ISO 75-1/-2
Vicat softening temperature, B	136	°C	ISO 306
Coeff. of linear therm. expansion, parallel	2100	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	4200	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	2.0	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (1)	1.5	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (2)	3	mm	-
Glow Wire Ignition Temperature (GWIT)	930	°C	IEC 60695-2-13
GWIT - thickness tested (1)	1.5	mm	-
Glow Wire Ignition Temperature (GWIT)	960	°C	IEC 60695-2-13
GWIT - thickness tested (2)	3	mm	-

Other properties	Value	Unit	Test Standard
Density	1400	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110	°C	-
Pre-drying - Time	4	h	-
Melt temperature	300 - 320	°C	-
Mold temperature	90 - 110	°C	-

Characteristics

Processing

Injection Molding

Special Characteristics

Flame retardant, Heat stabilized or stable to heat, Thermally Conductive

Applications

Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa