

Product Texts

Metal replacement, gray.

Processing/Physical Characteristics	Value	Unit	Test Standard
Other Standards^{S1}			
Molding shrinkage, parallel	0.2	%	Producer Method

S: These properties are reported by the producer according standards that are different to our defaults.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	20000	MPa	ISO 527
Stress at break	230	MPa	ISO 527
Strain at break	1.9	%	ISO 527
Flexural modulus, 23°C	20000	MPa	ISO 178
Flexural strength	340	MPa	ISO 178
ASTM Data			
Izod Impact notched, 1/8 in	95	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	700	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	230	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	17	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Oxygen index	32	%	ISO 4589-1/-2
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (1)	0.8	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (2)	1.5	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (3)	3	mm	-
Glow Wire Ignition Temperature (GWIT)	900	°C	IEC 60695-2-13
GWIT - thickness tested (1)	0.8	mm	-
Glow Wire Ignition Temperature (GWIT)	930	°C	IEC 60695-2-13
GWIT - thickness tested (2)	1.5	mm	-
Glow Wire Ignition Temperature (GWIT)	900	°C	IEC 60695-2-13
GWIT - thickness tested (3)	3	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Electric strength	29	kV/mm	IEC 60243-1
Comparative tracking index	400	-	IEC 60112
Other Standards^{S1}			
Volume resistivity	1E11	Ohm*m	IEC 60093

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Other properties	Value	Unit	Test Standard
Density	1750	kg/m ³	ISO 1183
Recycled resin content	50	%	-
Other Standards^{S1}			
Humidity absorption	1.3	%	Producer Method

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Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	0.5 - 1.5	h	-
Melt temperature	270	°C	-

Mold temperature	120 - 140	°C	-
Zone 1	250 - 260	°C	-
Zone 2	260 - 290	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Special Characteristics

Flame retardant

Features

Creep Resistance, High Gloss

Chemical Resistance

General Chemical Resistance

Certifications

Recycled Resin Content, RoHS compliant

ApplicationsAircraft and Aerospace, Automotive, IT / Business Machine,
Electrical and Electronical**Regional Availability**North America, Europe, Asia Pacific, South and Central America,
Near East/Africa