

Product Texts

Resistant. Negligible, reversible or no changes in mass and dimensions.

Please consider the information about the application of the materials.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	1.3	%	ISO 294-4, 2577
Molding shrinkage, normal	1.5	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3000	MPa	ISO 527
Yield stress	82	MPa	ISO 527
Yield strain	4.5	%	ISO 527
Strain at break	9	%	ISO 527
Flexural modulus, 23°C	2800	MPa	ISO 178
Flexural strength	116	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	70	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	4.4	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	4.3	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	3.7	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	265	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	73	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	207	°C	ISO 75-1/-2

Other properties	Value	Unit	Test Standard
Humidity absorption	2.6	%	Sim. to ISO 62
Density	1140	kg/m ³	ISO 1183

Material specific properties	Value	Unit	Test Standard
ISO Data			
Viscosity number	100 ^[1]	cm ³ /g	ISO 307, 1157, 1628

1: VN at 0.5% in sulfuric acid, nominal

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	10 - 16	h	-
Processing humidity	≤0.2	%	-
Melt temperature	280 - 295	°C	-
Mold temperature	50 - 90	°C	-
Zone 1	250 - 270	°C	-
Zone 2	270 - 290	°C	-
Zone 3	270 - 290	°C	-
Nozzle temperature	270 - 290	°C	-
Screw speed	75 - 180	rpm	-
Back pressure	0.2 - 1	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific, South and Central America

Certifications

RoHS compliant