

Product Texts

Electrically Insulating, High Glycol Resistance.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.003	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.01	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	12000	MPa	ISO 527
Stress at break	190	MPa	ISO 527
Strain at break	2.1	%	ISO 527
Flexural modulus, 23°C	11500	MPa	ISO 178
Charpy impact strength, +23°C	48	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	7.4	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	37	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	8.4	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	12600	MPa	ASTM D 638
Tensile Strength at Break	199	MPa	ASTM D 638
Elongation at Break	2.1	%	ASTM D 638
Flexural Modulus	11200	MPa	ASTM D 790
Izod Impact notched, 1/8 in	69	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	660	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	327	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	304	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	319	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	16	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	65	E-6/K	ISO 11359-1/-2

Electrical properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	600	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	29	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.017	-	ASTM D 150
Dielectric Constant, 1 MHz	4.1	-	ASTM D 150
Surface Resistivity	2.4E16	Ohm	ASTM D 257
Volume Resistivity	1.8E16	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1480	kg/m ³	ISO 1183
Water Absorption, 24hr	0.16	%	ASTM D 570

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.06	%	-
Melt temperature	332 - 354	°C	-
Mold temperature	180	°C	-
Zone 1	318 - 332	°C	-
Zone 2	318 - 332	°C	-
Zone 3	326 - 342	°C	-

Characteristics

Processing

Injection Molding

Delivery form

Pellets, Black

Additives

Lubricants, Release agent

Special Characteristics

Heat stabilized or stable to heat

Features

Creep Resistance

Chemical Resistance

General Chemical Resistance, Hydrolytically Stable

Applications

Aircraft and Aerospace, Automotive, Electrical and Electrical

Regional Availability

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