

Product Texts

Electrically Insulating.

Processing/Physical Characteristics

	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.1 / *	%	ISO 294-4, 2577

Mechanical properties

	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	22500 / 21000	MPa	ISO 527
Stress at break	285 / 250	MPa	ISO 527
Strain at break	2 / 2	%	ISO 527
Flexural modulus, 23°C	21500 / -	MPa	ISO 178
Flexural strength	420 / -	MPa	ISO 178
Charpy impact strength, +23°C	110 / 100	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	100 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	60 / 60	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	60 / -	kJ/m ²	ISO 179/1eA

Thermal properties

	dry / cond	Unit	Test Standard
ISO Data			
Glass transition temperature, 10°C/min	255 / *	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	260 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	18 / *	E-6/K	ISO 11359-1/-2

Electrical properties

	dry / cond	Unit	Test Standard
ISO Data			
Electric strength	35 / -	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	-	IEC 60112
ASTM Data			
Surface Resistivity	* / 1E13	Ohm	ASTM D 257

Other properties

	dry / cond	Unit	Test Standard
Humidity absorption	1.2 / *	%	Sim. to ISO 62
Density	1690 / -	kg/m ³	ISO 1183

Processing Recommendation Injection Molding

	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4 - 8	h	-
Processing humidity	≤0.1	%	-
Melt temperature	320	°C	-
Mold temperature	80 - 120	°C	-
Zone 1	290 - 300	°C	-
Zone 2	300	°C	-
Zone 3	300	°C	-
Nozzle temperature	300	°C	-

Characteristics

Processing

Injection Molding, Compression Molding

Delivery form

Pellets, Black

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Features

Creep Resistance, Fatigue Resistance, Long fiber reinforced, Low Warpage

Applications

Aircraft and Aerospace, Automotive, Electrical and Electronical

Regional Availability

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