

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.003	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.006	mm/mm	ASTM D 955
Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	14500 / 14500	MPa	ISO 527
Yield stress	186 / -	MPa	ISO 527
Strain at break	1.6 / 1.6	%	ISO 527
Flexural modulus, 23°C	12600 / 12600	MPa	ISO 178
Flexural modulus	4620 / -	MPa	ISO 178
Flexural modulus temperature	175	°C	-
Charpy impact strength, +23°C	46 / 47	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	14 / 14	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	44 / 44	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	8.2 / 8	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	16100 / 13700	MPa	ASTM D 638
Tensile Strength	199 / 166	MPa	ASTM D 638
Elongation at Break	1.7 / 1.7	%	ASTM D 638
Compressive Strength	145 / -	MPa	ASTM D 695
Flexural Modulus	13100 / 13300	MPa	ASTM D 790
Flexural Strength	224 / 229	MPa	ASTM D 790
Izod Impact notched, 1/8 in	85.4 / 80	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	690 / -	J/m	ASTM D 256
Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	310 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	282 / *	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-
Electrical properties	dry / cond	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	24 / -	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.011 / -	-	ASTM D 150
Dielectric Constant, 1 MHz	4.1 / -	-	ASTM D 150
Surface Resistivity	* / 1E15	Ohm	ASTM D 257
Volume Resistivity	1E15 / -	Ohm*cm	ASTM D 257
Other properties	dry / cond	Unit	Test Standard
Density	1680 / -	kg/m ³	ISO 1183
Water Absorption, 24hr	0.2	%	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	321 - 338	°C	-
Mold temperature	66 - 93	°C	-
Zone 1	327 - 332	°C	-
Zone 2	316 - 324	°C	-
Zone 3	316 - 324	°C	-
Injection speed	76 - 102	mm/s	-

Characteristics

Processing

Injection Molding

Delivery form

Pellets, Black

Special Characteristics

Flame retardant

Chemical Resistance

General Chemical Resistance

Applications

Automotive, Electrical and Electronical

Regional Availability

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