

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.002	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Tensile Strength	288	MPa	ISO 527
Flexural modulus	16600	MPa	ISO 178
Flexural strength	405	MPa	ISO 178
Charpy impact strength, +23°C	112	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	38	kJ/m ²	ISO 179/1eA
Rockwell hardness	R 122	-	ISO 2039-2
ASTM Data			
Tensile Modulus	20100	MPa	ASTM D 638
Tensile Strength	245	MPa	ASTM D 638
Flexural Modulus	17500	MPa	ASTM D 790
Flexural Strength	410	MPa	ASTM D 790
Rockwell Hardness	R 122	-	ASTM D 785
Thermal properties			
ISO Data			
Melting temperature, 10°C/min	222	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	218	°C	ISO 75-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
DTUL @ 264 psi	218	°C	ASTM D 648
Melting Temperature	222	°C	ASTM D 3418
Electrical properties			
ISO Data			
Relative permittivity, 1MHz	3.7	-	IEC 62631-2-1
Dissipation factor, 1MHz	0.01	E-4	IEC 62631-2-1
Volume resistivity	1E13	Ohm*m	IEC 62631-3-1
Electric strength	35	kV/mm	IEC 60243-1
ASTM Data			
Dielectric Strength, Short Time	22	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.02	-	ASTM D 150
Dielectric Constant, 1 MHz	3.8	-	ASTM D 150
Volume Resistivity	1E15	Ohm*cm	ASTM D 257
Other properties			
Water absorption	0.5	%	Sim. to ISO 62
Density	1640	kg/m ³	ISO 1183
Water Absorption, 24hr	0.9	%	ASTM D 570
Density	1680	kg/m ³	ASTM D 792

Characteristics

Special Characteristics

High impact or impact modified

Features

Creep Resistance, Long fiber reinforced

Applications

Automotive, Electrical and Electronical

Regional Availability

North America, Asia Pacific