

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.5 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0 / *	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.009	mm/mm	ASTM D 955
Mechanical properties			
dry / cond	Unit	Test Standard	
ISO Data			
Tensile Modulus	11500 / -	MPa	ISO 527
Stress at break	211 / -	MPa	ISO 527
Strain at break	2 / -	%	ISO 527
Flexural modulus, 23°C	11400 / -	MPa	ISO 178
Flexural modulus	4600 / -	MPa	ISO 178
Flexural modulus temperature	175	°C	-
Charpy impact strength, +23°C	60 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	9.2 / -	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	62 / -	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	9.1 / -	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	13800 / 12200	MPa	ASTM D 638
Tensile Strength	203 / 176	MPa	ASTM D 638
Elongation at Break	1.9 / 2.1	%	ASTM D 638
Compressive Strength	148 / -	MPa	ASTM D 695
Flexural Modulus	11400 / 11000	MPa	ASTM D 790
Flexural Strength	310 / 249	MPa	ASTM D 790
Rockwell Hardness	R125 /	-	ASTM D 785
Izod Impact notched, 1/8 in	85.4 / 69	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	800 / -	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	288 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	303 / *	°C	ISO 75-1/-2
ASTM Data			
Melting Temperature	310	°C	ASTM D 3418
Other properties			
dry / cond	Unit	Test Standard	
Density	1450 / -	kg/m ³	ISO 1183
Water Absorption, 24hr	0.3	%	ASTM D 570
Processing Recommendation Injection Molding			
Value	Unit	Test Standard	
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.045	%	-
Melt temperature	321 - 335	°C	-
Mold temperature	66 - 93	°C	-
Zone 1	316 - 321	°C	-
Zone 2	327 - 332	°C	-

Characteristics

Processing

Injection Molding

Chemical Resistance

General Chemical Resistance

Delivery form

Pellets, Black

Special Characteristics

Heat stabilized or stable to heat

Features

Creep Resistance, High Crystallinity

ApplicationsAutomotive, IT / Business Machine, Electrical and Electronical,
General Purpose**Regional Availability**North America, Europe, Asia Pacific, South and Central America,
Near East/Africa