

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	19500	MPa	ISO 527
Stress at break	230	MPa	ISO 527
Strain at break	2.1	%	ISO 527
Flexural modulus, 23°C	16500	MPa	ISO 178
Flexural strength	340	MPa	ISO 178
Izod impact strength, +23°C	40	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	9.5	kJ/m ²	ISO 180/1A
Shore D hardness	86	-	ISO 7619-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	343	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	143	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	325	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	8	E-6/K	ISO 11359-1/-2
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (1)	2	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	100000	Ohm*m	IEC 62631-3-1

Other properties	Value	Unit	Test Standard
Water absorption	0.35	%	Sim. to ISO 62
Density	1370	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 150	°C	-
Pre-drying - Time	3 - 5	h	-
Processing humidity	≤0.02	%	-
Mold temperature	180 - 210	°C	-
Feed temperature	≤100	°C	-
Zone 1	375	°C	-
Zone 2	380	°C	-
Zone 3	385	°C	-
Zone 4	390	°C	-
Nozzle temperature	395	°C	-

Characteristics

Processing
Injection Molding, Other Extrusion

Delivery form
Pellets, Black

Features
Tribologic Grade

Chemical Resistance
General Chemical Resistance

Certifications
Food contact, Food approval FDA 21 CFR

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