

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.1	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
Thermal conductivity of melt	0.95	W/(m K)	-
Spec. heat capacity of melt	1800	J/(kg K)	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	28000	MPa	ISO 527
Stress at break	275	MPa	ISO 527
Strain at break	1.4	%	ISO 527
Flexural modulus, 23°C	24000	MPa	ISO 178
Flexural strength	380	MPa	ISO 178
Charpy impact strength, +23°C	45	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	6	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	40	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	7	kJ/m ²	ISO 180/1A
Shore D hardness	87.5	-	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	342	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	5	E-6/K	ISO 11359-1/-2
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (1)	2	mm	-

Other properties	Value	Unit	Test Standard
Water absorption	0.3	%	Sim. to ISO 62
Density	1400	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	170 - 200	°C	-
Feed temperature	≤100	°C	-
Zone 1	360	°C	-
Zone 2	365	°C	-
Zone 3	370	°C	-
Zone 4	375	°C	-
Nozzle temperature	380	°C	-

Characteristics

Processing

Injection Molding

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