

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	12	g/10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	12	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Tensile Modulus	2300	MPa	ISO 527
Yield stress	65.2	MPa	ISO 527
Yield strain	6.1	%	ISO 527
Stress at break	69.6	MPa	ISO 527
Strain at break	>50	%	ISO 527
Flexural modulus, 23°C	2300	MPa	ISO 178
Charpy notched impact strength, +23°C	25	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	65	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2268	MPa	ASTM D 638
Tensile Strength at Yield	64.3	MPa	ASTM D 638
Tensile Strength at Break	68.9	MPa	ASTM D 638
Elongation at Yield	6.3	%	ASTM D 638
Elongation at Break	150	%	ASTM D 638
Flexural Modulus	2199	MPa	ASTM D 790
Flexural Strength	100	MPa	ASTM D 790
Rockwell Hardness	R 118	-	ASTM D 785
Izod Impact notched, 1/8 in	747	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	123	°C	ISO 75-1/-2
Vicat softening temperature, B	141	°C	ISO 306
ASTM Data			
Coefficient of Thermal Expansion, MD	68.4	E-6/K	ASTM D 696
DTUL @ 264 psi	121	°C	ASTM D 648
Electrical properties			
ISO Data			
Electric strength	17	kV/mm	IEC 60243-1
ASTM Data			
Dielectric Strength, Short Time	16.5	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.002	-	ASTM D 150
Dielectric Constant, 60 Hz	3	-	ASTM D 150
Dielectric Constant, 1 MHz	3	-	ASTM D 150
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257
Optical properties			
ASTM Data			
Haze	1	%	ASTM D 1003
Light Transmittance	85	%	ASTM D 1003
Index of Refraction	1.59	-	ASTM D 542

Other properties	Value	Unit	Test Standard
Humidity absorption	0.32	%	Sim. to ISO 62
Density	1200	kg/m ³	ISO 1183
Water Absorption, 24hr	0.15	%	ASTM D 570
Water Absorption, Equilibrium	0.32	%	ASTM D 570
Density	1200	kg/m ³	ASTM D 792

Characteristics

Additives

Release agent

Special Characteristics

Transparent

Chemical Resistance

Radiation Resistance

Applications

General Purpose, Medical

Regional Availability

Europe, Near East/Africa