

General Information

General

Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> North America
Test Standards Available	<ul style="list-style-type: none"> ASTM
Features	<ul style="list-style-type: none"> Appearance, Pleasing Surface Chemical Resistance, Good Clarity, High Hardness, High Weather Resistance, Good
Uses	<ul style="list-style-type: none"> Appliances Automotive Applications Electrical/Electronic Applications Optical Applications
Forms	<ul style="list-style-type: none"> Pellets

ASTM and ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density -Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	6.0	g/10 min	ASTM D1238
Mold Shrink, Linear-Flow	0.0020 to 0.0060	cm/cm	ASTM D955
Water Absorption @ 24 hrs	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²	68.9	MPa	ASTM D638
Tensile Elongation @ Brk ²	5.0	%	ASTM D638
Flexural Modulus ³	3040	MPa	ASTM D790
Flexural Strength ³	103	MPa	ASTM D790
Compressive Strength	103	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	15.7	J/m	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	92		ASTM D785
Thermal	Nominal Value	Unit	Test Method
DTUL @264psi - Unannealed	89.0	°C	ASTM D648
Vicat Softening Point	104	°C	ASTM D1525
CLTE, Flow	0.000060	cm/cm/°C	ASTM D696
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ASTM D542
Transmittance (3200 μ)	93.0	%	ASTM D1003

Additional Properties

Surface Resistivity, JIS K6911: >10¹⁶ ohm
 Volume Resistivity, JIS K6911: >10¹⁵ ohm-cm
 Dielectric Breakdown Strength: 20 kV/mm
 Dielectric Constant, 60Hz: 3.7
 Dielectric Loss Tangent, 60Hz: 0.05
 Arc Resistance, JIS K6911: No Trace

Notes

¹ Typical properties: these are not to be construed as specifications.

² Type I

³ 6.35 mm

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