

Technical Specifications

	Conditions / Method	Measurement Standard	Unit	Value
General characteristics				
Density	23°C	ASTM D792	g/cm ³	1.19
Water absorption (24H)	23°C / 50% HR	ASTM D570	%	0.3
Mold Shrinkage		ASTM D955	%	0.2-0.6
Rheological properties				
Melt Index	230°C / 3.8kg	ASTM D1238	g/10min	3.5
PROCESS – Melt temperature	Mini-Maxi		°C	230-250
PROCESS – Mold temperature	Mini-Maxi		°C	80-90
PROCESS – Drying conditions	4h		°C	85-90
Mechanical properties				
Tensile Strength at Yield	23°C	ASTM D638	MPa	74
Elongation at break	23°C	ASTM D638	%	6
Flexural Modulus	23°C	ASTM D790	MPa	3240
Maximum Flexural Stress	23°C	ASTM D790	MPa	107
Compressive Strength	23°C	ASTM D695	MPa	117
Charpy Impact resistance (un-notched)	23°C	ISO 179-1eU	kJ/m ²	11
Charpy Impact resistance (notched)	23°C	ISO 179-1ea	kJ/m ²	2
Izod Impact resistance (notched)	23°C	ASTM D256	kJ/m ²	1.4
Surface hardness (Rockwell scale M)	23°C	ASTM D785	HRM	99
Optical properties				
Refractive index	23°C – Method A	ASTM D542	-	1.49
Light transmittance (3mm)	23°C	ASTM D1003	%	92
Haze (3mm)	23°C	ASTM D1003	%	0.5
Electrical Properties				
Dielectric Strength		ASTM D149	MV/m	19.7
Dielectric Constant	60 Hz	ASTM D150		3.7
Dissipation Factor	1 MHz	ASTM D150		0.04
Surface Resistivity		ASTM D257	Ohm	>10 ¹⁴
Volume Resistivity		ASTM D257	Ohm.cm	>10 ¹⁵
Thermal Properties				
Vicat softening Point	50°C/hr, 1kg	ASTM D1525	°C	117
- Unannealed	50°C/hr, 5kg	ASTM D1525	°C	108
HDT	18.6kgf/cm ²	ASTM D648	°C	101
- Under load, Annealed	4.6kgf/cm ²	ASTM D648	°C	110
Coefficient of Linear Expansion	(-30°C ; 23°C)	ASTM D696	10 ⁻⁶ K	65
Flammability				
Fire Resistance (Class)	3.2mm	UL/94	Class	HB

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