

Technical Specifications

	Conditions / Method	Measurement Standard	Unit	Value
General characteristics				
Density	23°C	ISO 1183	g/cm ³	1.15
Water absorption (24H)	23°C / 50% HR	ISO 62	%	0.36
Mold Shrinkage		ASTM D-955	%	0.2-0.8
Rheological properties				
Melt Index	230°C / 3.8kg	ISO 1133	g/10min	0.8
PROCESS – Melt temperature	Mini-Maxi		°C	235-245
PROCESS – Mold temperature	Mini-Maxi		°C	70-80
PROCESS – Drying conditions	4h		°C	80°C
Mechanical properties				
Tensile Strength at Yield	23°C	ISO 527	MPa	38
Elongation at break	23°C	ISO 527	%	40
Flexural Modulus	23°C	ISO 178	MPa	1700
Flexural strength	23°C	ISO 178	MPa	62
Compressive Strength	23°C	ISO 604	MPa	45
Charpy Impact resistance (un-notched)	23°C	ISO 179-1eU	kJ/m ²	60
Charpy Impact resistance (notched)	23°C	ISO 179-1ea	kJ/m ²	7
Izod Impact resistance (notched)	23°C	ISO 180	kJ/m ²	6.3
Surface hardness (Rockwell scale M)	23°C	ASTM D785	HRM	M-46
Optical properties				
Refractive index	23°C – Method A	ISO 489	-	1.49
Light transmittance (3mm)	23°C	ASTM D1003	%	90
Haze (3mm)	23°C	ASTM D1003	%	2
Electrical Properties				
Dielectric Strength		ASTM D-149	MV/m	15
Dielectric Constant	60 Hz	ASTM D-150		3.9
Dissipation Factor	1 MHz	ASTM D-150		0.04
Surface Resistivity		ASTM D-257	Ohm	>10 ¹⁴
Volume Resistivity		ASTM D-257	Ohm.cm	>10 ¹⁵
Thermal Properties				
Vicat softening Point	B50 (50N)	ISO 306	°C	100
HDT	A (1.82 MPa)	ISO 75	°C	88
	(0.45 Mpa)			93
Coefficient of Linear Expansion	(-30°C ; 23°C)	ASTM D-696	10 ⁻⁶ K	100
Specific Heat			J/(kg.°C)	2093
Flammability				
Fire Resistance (Class)	3.2mm	UL/94	Class	HB

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