Altuglas®

RESIN

ALTUGLAS® MI-8E

		CONDITIONS	TEST METHOD	UNITS	
1 - GENERAL PROPERTIES					
Density			ISO 1183	g/cm³	1,16
Water absorption		23°C/50%HR	ISO 62	%	0,34
Mold shrinkage			ASTM D-955	%	0,2-0,8
2 - RHEOLOGICAL PROPERTIES					
Rheology					
Melt Flow Index		230°C/3,8 kg	ISO 1133	g/10 min	0,7
Process					
Melt Temperature	mini			°C	235
	maxi				245
Mold Temperature	mini			°C	80
	maxi				90
Drying Conditions	time			h	4
	temperature			°C	85
3 - MECHANICAL PROPERTIES					
Rockwell Hardness			ASTM D-785		M-56
Tensile Strength maximum		23°C	ISO 527-2	MPa	45
Elongation at break		23°C	ISO 527-2	%	35
Flexural Strength		23°C	ISO 178	MPa	72,5
Flexural Modulus		23°C	ISO 178	MPa	2200
Compressive strength		23°C	ISO 604	MPa	64
Impact Resistance (Charpy, Notched)		23°C	ISO 179-1eA	kJ/m²	4
Impact Resistance (Charpy, Unnotched)		23°C	ISO 179-1eU	kJ/m²	45
Impact Resistance (Izod, Notched)		23°C	ISO 180/1a	kJ/m²	4,5
4 - OPTICAL PROPERTIES					
Refractive Index B			ISO R-489		1,49
Light Transmittance			ASTM D-1003	%	91
Haze			ASTM D-1003	%	1,5
5 - ELECTRICAL PROPERTIES					
Dielectric Strength			ASTM D-149	MV/m	16,5
Dielectric Constant		60 Hz	ASTM D-150		3,85
Dissipation Factor		1 MHz	ASTM D-150		0,04
Surface Resistivity			ASTM D-257	Ohm	$>10^{14}$
Volume Resistivity			ASTM D-257	Ohm.cm	$>10^{15}$
6 - THERMAL PROPERTIES					
Vicat Softening Temperature		50 N	ISO 306	°C	101
HDT		1,82 MPa	ISO 75-2	°C	90
Coefficient of linear expansion		[-30°C ; 23°C]	ASTM D-696	10^{-6}K	90
7 - FLAMMABILITY					
Fire Resistance			ASTM UL/94	Class	HB

N.B.: The values quoted are the average of results obtained under laboratory conditions and are given only as an indication to enable customers to make best use of our products. Values reported are typical and should not be used for specification purposes.

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