

DRT

		CONDITIONS	TEST METHOD	UNITS	
1 - GENERAL PROPERTIES					
Density			ISO 1183	g/cm ³	1,15
Water Absorption		23°C/50%HR	ISO 62	%	0,36
Mould Shrinkage	long.	mm	ASTM D-955	%	0,2-0,8
	transv.	mm			0,2-0,8
2 - RHEOLOGICAL PROPERTIES					
Rheology					
Melt Flow Index		230°C/3,8 kg	ISO 1133	g/10 min	0,8
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-46
Tensile Strength		23°C	ISO 527-1	Mpa	38
Elongation at break		23°C	ISO 527-1	%	40
Flexural Modulus		23°C	ISO 178	GPa	1,7
Flexural Strength		23°C	ISO 178	Mpa	62
Compressive Strength		23°C	ISO 604	Mpa	45
Impact Resistance (Charpy, Notched)		23°C	ISO 179 1eU	kJ/m ²	7
Impact Resistance (Charpy, Unnotched)		23°C	ISO 179 1eU	kJ/m ²	60
Impact Resistane (Izod, Notched)		23°C	ISO 180/1a	kJ/m ²	5,5
4 - OPTICAL PROPERTIES					
Refractive Index B			R-489		1,49
Light Transmittance			ASTM D-1003	%	90
Haze			ASTM D-1003	%	2
5 - 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-527	Ohm	>10 ¹⁴
Volume Resistivity			ASTM D-527	Ohm/cm	>10 ¹⁵
6 - THERMAL PROPERTIES					
Vicat Softening Temperature		50 N	ISO 306	°C	100
HDT		1,82 Mpa	ISO 75-2	°C	88
		0,45 Mpa			93
Thermal Dilatation Coefficient		[-30°C;23°C]	ISO/DIS 11359-2	10 ⁻⁶ °C ⁻¹	100
Specific Heat				J/Kg·°C	2093
7 - FLAMMABILITY					
Fire Resistance			ASTM UL/94	Classe	HB

(*) The values quoted are the average of results obtained under laboratory conditions and are given only as an indication to enable customers to make use of our products

RHEOLOGY

