

ALTUGLAS® V-060_(a)

May 2009

	CONDITIONS	TEST METHOD	UNITS	
1 - GENERAL PROPERTIES				
Specific gravity		ASTM D-792		1.19
Water Absorption	23°C/50%HR	ASTM D-570	%	0.3
Mold Shrinkage		ASTM D-955	%	0.2 - 0.6
2 - RHEOLOGICAL PROPERTIES				
Rheology				
Melt Flow Rate	condition I	ASTM D-1238	g/10min	6.0
Process				
Melt Temperature	mini		°C	220
	maxi			230
Mold Temperature	mini		°C	70
	maxi			80
Drying Conditions	time		h	2 - 4
	temperature		°C	70 - 80
3 - MECHANICAL PROPERTIES				
Rockwell Hardness		ASTM D-785		M-96
Tensile Strength		ASTM D-638c ^(b)	Mpa	72
Elongation at break		ASTM D-638c	%	6
Flexural Modulus		ASTM D-790c	Mpa	32,000
Flexural Strength		ASTM D-790c	Mpa	103
Compressive Strength		ASTM D-695	Mpa	110
Impact Resistance (Charpy, Notched)		ISO 179-1	kJ/m ²	2
Impact Resistance (Charpy, Unnotched)		ISO 179-1	kJ/m ²	11
Impact Resistance (Izod, Notched)		ASTM D-256c	kJ/m ²	1.4
4 - OPTICAL PROPERTIES				
Refractive Index		ASTM D-542		1.49
Light Transmittance		ASTM D-1003	%	92
Haze		ASTM D-1003	%	0.5
5 - ELECTRICAL PROPERTIES				
Dielectric Strength		ASTM D-149	MV/m	19.7
Dielectric Constant	60 Hz	ASTM D-150		3.7
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°C/hr, 1kg	ASTM D-1525	°C	112
- Unannealed	50°C/hr, 5kg	ASTM D-1525		104
HDT	18.6kgf/cm ²	ASTM D-648	°C	98
- Under load, Annealed ^(c)	6.4kgf/cm ²	ASTM D-648		102
Coefficient of linear expansion	[-30°C;23°C]	ASTM D-696	10 ⁻⁶ /°K	65
7 - FLAMMABILITY				
Fire Resistance		ASTM UL/94	Class	HB

(a) Data given are average values and should not be used for specification purposes.

(b) Samples conditioned per ASTM D-618, Procedure B.

(c) Annealing cycles: 4hrs at 80 - 85°C.

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