

Altuglas Diffuse 301 – Preliminary technical data sheet

May 2013

Technical Specifications

	Measurement method	Unit	Value
General characteristics			
Density	ISO 1183	g/cm ³	1,19
Water absorption (24H)	ISO 62	%	0,3
Mould shrinkage	D-955	%	0,2-0,6
Mechanical properties			
Flexural Modulus	ISO 178	MPa	3300
Charpy Impact strength (un-notched)	ISO 179-1	kJ/m ²	10
Izod Impact strength (Notched)	ISO 180-1a	kJ/m ²	1,8
Thermal properties			
Melt Flow Index (230°C/3.8kg)	ISO 1133	g/10 min	3.0
Vicat softening point (B50)	ISO 306	°C	103
Heat Deflection Temperature (1,82MPa)	ISO 75-2	°C	95
Optical properties (2 mm thick samples)			
Refractive index	ISO R-489	-	1,49
Light transmittance	ASTM D-1003	%	92
Relative Diffusing Power (1 inch)	Internal method	%	53
Relative Diffusing Power (2 inch)	Internal method	%	82
Diffusion factor [T(20°) + T(70°) / 2 T(5°)]	Internal method	-	0.28
Half angle value (angle for 50% max. LT)	Internal method	Degree	20
Hiding power (LT% at 2° / LT% at 0°)	Internal method	-	0.99
Flammability			
Glow wire resistance (thickness 2.05mm)	IEC 60695-2-12	°C	> 700C
Glow wire resistance (thickness 3.07mm)	IEC 60695-2-12	°C	> 700C
Fire resistance	UL94	Class	HB

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