

# Altuglas Diffuse 501 – Preliminary technical data sheet

May 2013

## Technical Specifications

	Measurement method	Unit	Value
<b>General characteristics</b>			
Density	ISO 1183	g/cm <sup>3</sup>	1,15
Water absorption (24H)	ISO 62	%	0,36
Mould shrinkage	D-955	%	0,2-0,8
<b>Mechanical properties</b>			
Flexural Modulus	ISO 178	MPa	1830
Charpy Impact strength (un-notched)	ISO 179-1	kJ/m <sup>2</sup>	31
Izod Impact strength (Notched)	ISO 180-1a	kJ/m <sup>2</sup>	3,2
<b>Thermal properties</b>			
Melt Flow Index (230°C/3.8kg)	ISO 1133	g/10 min	0,9
Vicat softening point (B50)	ISO 306	°C	94
Heat Deflection Temperature (1,82MPa)	ISO 75-2	°C	87
<b>Optical properties (2 mm thick samples)</b>			
Refractive index	ISO R-489	-	1,49
Light transmittance	ASTM D-1003	%	76
Relative Diffusing Power (1 inch)	Internal method	%	67
Relative Diffusing Power (2 inch)	Internal method	%	87
Diffusion factor [ T(20°) + T(70°) / 2 T(5°)]	Internal method	-	0,34
Half angle value (angle for 50% max. LT)	Internal method	Degree	23,5
Hiding power (LT% at 2° / LT% at 0°)	Internal method	-	0,99
<b>Flammability</b>			
Glow wire resistance (thickness 2.05mm)	IEC 60695-2-12	°C	> 650C
Glow wire resistance (thickness 3.07mm)	IEC 60695-2-12	°C	> 650C
Fire resistance	UL94	Class	HB

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