

Altuglas® ShieldUp

ref: 190

Reinforce your final product

The first nanostructured sheets combining lightness, strength and transparency

	Measurement method	Unit	Value
General characteristics			
Density	ISO 1183	g/cm ³	1,17
Water absorption	ISO 62	%	0,36
Mold shrinkage	145°C - 1h	%	2,5
Mechanical properties			
Flexural modulus	ISO 178	MPa	2300
Charpy unnotched	ISO 179/2eU	kJ/m ²	50
Charpy notched	ISO 179/1eA	kJ/m ²	2,8
Rockwell hardness	ASTM D 785		M86
Thermal properties			
Vicat (50N)	ISO 306	°C	106
Coefficient of expansion	ASTM D 696	µm/m/°C	70
Thermal conductivity	DIN 52 612	W/mK	0,20
Thermoforming temperature		°C	130 - 160
Optical properties			
Refractive index	D 652		1,492
Light transmittance (3 mm)	ASTM D 1003	%	> 92
Haze (20 °C) (sheet e = 3mm)	ASTM D 1003	%	< 1
Haze (80 °C) (sheet c = 3mm)	ASTM D 1003	%	< 2
Chemical properties			
Chemical resistance (Isopropanol 25%)	EN 13359	Second	> 100
Chemical resistance (Acetone)			Limited attack

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