

## Epraform® PC UV bright

A transparent plastic which is suitable for glazing applications. The material is fairly scratch-resistant and has a very high impact resistance. It is good aging resistant, has a high brightness and is reasonably good chemical resistance.

General properties	Test method	Value	Unit
ISO code:	ISO 1183		
Density:	ISO 1183-1	1,2	g/cm <sup>3</sup>
Water absorption in Air (23°C / 50% RH)	ISO 62	n/a	%
Water absorption in Air (23°C / 100% RH)	ISO 62	0,15	%
Resistance to hot water	n/a	+	
Weather resistance	n/a	+	
Light transmission	ASTM D1003	88	%
Refractive index	ISO 489	n/a	
<b>Mechanical properties</b>			
Elongation at break:	ISO 527	110	%
Ball indentation hardness	ISO 2039	n/a	MPa
Tensile modules of elasticity	ISO 527	2300	MPa
Charpy impact strength - notched	ISO 179	65	kJ/m <sup>2</sup>
Charpy impact strength - unnotched	ISO 179	No Break	kJ/m <sup>2</sup>
Compressive stress at 1%	n/a	n/a	MPa
Coefficient of friction	n/a	0,5-0,6	
<b>Thermal properties</b>			
Melting temperature	n/a	150	°C
Max. allowable service temp (short period)	n/a	135	°C
Max. allowable service temp (long period)	n/a	115	°C
Min. service temperature	n/a	-40	°C
Coefficient of linear expansion	n/a	65	x10 <sup>-6</sup> m/(m*K)
Flammability	UL94	HB	
<b>Electrical properties</b>			
Dielectric dissipation (at 1MHz)	ISO 60250	0,01	Ω
Electric strength	ISO 60243	30	kV/mm
Volume resistivity	ISO 60093	10 <sup>^16</sup>	Ω.cm

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