

Epraform® PC Scratch resistant

Polycarbonate sheet with a silicon-based hard coating on one or two sides for glazing applications. The material has good scratch resistant and has a very high impact resistance with improved weather resistance and chemical resistance as well as good protection against wear. It is good aging resistance, 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/cm3
Water absorption in Air (23°C / 50% RH)	ISO 62		%
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	n/a	%
Refractive index	ISO 489	n/a	
Mechanical properties			
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	10	kJ/m2
Charpy impact strength - unnotched	ISO 179	No Break	kJ/m2
Compressive stress at 1%	n/a	n/a	MPa
Coefficient of friction	n/a	0,5-0,6	
Thermal properties			
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	-100	°C
Coefficient of linear expansion	n/a	70	x10 -6 m/(m*K)
Flammability	UL94	HB	
Electrical properties			
Dielectric dissipation (at 1MHz)	ISO 60250	n/a	Ω
Electric strength	ISO 60243	n/a	kV/mm
Volume resistivity	ISO 60093	n/a	Ω.cm

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