

Epraform® PMMA X

This material is an extruded, crystal-clear material that has a wide range of applications in construction, advertising and industry. This plastic is reasonably impact-resistant and has good scratch resistance. The weather and UV resistance is also excellent. In addition, the material is reasonably well chemically resistant.

General properties	Test method	Value	Unit
ISO code:	ISO 1183		
Density:	ISO 1183-1	1,17	g/cm3
Water absorption in Air (23°C / 50% RH)	ISO 62	0,2	%
Water absorption in Air (23°C / 100% RH)	ISO 62	0,2	%
Resistance to hot water	n/a	+	
Weather resistance	n/a	+	
Light transmission	ASTM D1003	92	%
Refractive index	ISO 489	1490	
Mechanical properties			
Elongation at break:	ISO 527	4	%
Ball indentation hardness	ISO 2039	175	MPa
Tensile modules of elasticity	ISO 527	3200	MPa
Charpy impact strength - notched	ISO 179	2	kJ/m2
Charpy impact strength - unnotched	ISO 179	17	kJ/m2
Compressive stress at 1%	n/a	n/a	MPa
Coefficient of friction	n/a	0,5	
Thermal properties			
Melting temperature	n/a	180	°C
Max. allowable service temp (short period)	n/a	90	°C
Max. allowable service temp (long period)	n/a	80	°C
Min. service temperature	n/a	-20	°C
Coefficient of linear expansion	n/a	65	x10 ⁻⁶ m/(m*K)
Flammability	UL94	HB	
Electrical properties			
Dielectric dissipation (at 1MHz)	ISO 60250	0,04	Ω
Electric strength	ISO 60243	10	kV/mm
Volume resistivity	ISO 60093	10 ^{^13}	Ω.cm

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