Epradur® PVC-HI

This material combines the favorable properties of PVC like proven chemical resistance and excellent formability with high impact strength. It is the perfect choice not only for tank and equipment construction but also for applications in the field of structural, advertising and automotive engineering.

General properties	Test method	Value	Unit
ISO code:	ISO 1183		
Density:	ISO 1183-1	1,41	g/cm3
Water absorption in Air (23°C / 50% RH)	ISO 62	0,2	%
Water absorption in Air (23°C / 100% RH)	ISO 62	0,5	%
Resistance to hot water	n/a	+	
Weather resistance	n/a	-	
Mechanical properties			
Elongation at break:	ISO 527	20	%
Ball indention hardness	ISO 2039	n/a	MPa
Tensile modules of elasticity	ISO 527	2500	MPa
Charpy impact strength - notched	ISO 179	8	kJ/m2
Charpy impact strength - unnotched	ISO 179	n/a	kJ/m2
Compressive stress at 1%	n/a	n/a	MPa
Coefficient of friction	ASTM D 1894	n/a	
Thermal properties			
Melting temperature	n/a	130	°C
Max. allowable service temp (short period)	n/a	70	°C
Max. allowable service temp (long period)	n/a	60	°C
Min. service temperature	n/a	-20	°C
Coefficient of linear expansion	n/a	60	x10 -6 m/(m*K)
Flammability	UL94	B1	
Electrical properties			
Dielectric dissipation (at 1MHz)	ISO 60250	3,2	Ω
Electric strength	ISO 60243	34	kV/mm
Volume resistivity	ISO 60093	10^14	Ω.cm

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