

HDPE PANELS



Properties	Units	Test Method	Value
Thermal properties			
Melting temperature (DSC, 10oC/min)	oC	ISO 11357-1/-3	135
Thermal conductivity at 23 o C	W/(K.m)	-	0.40
Average coefficient of linear thermal expansion between 23 and 100 o C	m/(m.K)	-	150x10 ⁻⁶
Deflection temperature under load: Method A: 1.8 MPa	oC	ISO 75-1/-2	44
Vicat softening temperature - VST/B50	oC	ISO 306	80
Max. permissible service temperature in air for short periods	oC	-	120
Max. Permissible service temperature in air continuously for 20,000 h	oC	-	80
Min. service temperature	oC	-	-100
Flammability oxygen index	%	ISO 4589-1/-2	<20
Electric properties at 23 o C			
Electric resistance	kV/mm	IEC 60243-1	45
Resistivity volume	oC	IEC 60093	80
surface resistivity	oC	IEC 60093	-100
Relative permittivity ξ at 100 Hz	%	IEC 60250	2.4
Relative permittivity ξ at 1 Hz	oC	IEC 60250	2.4

* These data are very useful for choosing the material. The data appearing in this list are indicative values and should not be used to establish material specification limits. From these values no legal binding of security of certain properties or the suitability of a specific application can be deduced.

