



TECHNICAL DATASHEET

HDPE

High Density Polyethylene sheets

PROPERTY	UNIT	VALUE	STANDARD	VARIABLE
General				
Density	g/cm ³	0,95	ISO 1183	
Melt flow index (MFR)	g/10 min	11	ISO 1183	190 °C / 2,1,6 kg
Mechanical				
Yield stress	MPa	23	DIN EN ISO 527	50 mm/ min
Elongation at yield	%	9	DIN EN ISO 527	50 mm/ min
Modulus of elasticity in tension	MPa	800	DIN EN ISO 527	1 mm/ min
Impact strength notched	kJ/m ²	20	ISO 179	+23 °C
Hardness	Shore D	64	ISO 868	15 sec.
Ball indentation hardness	MPa	41	ISO 2039- 1	
Electrical				
Specific volume resistivity	Ω*cm	> 10 ¹⁵	IEC 60093	
Surface resistivity	Ω	> 10 ¹⁵	IEC 60093	
Dielectric strength	kV/mm	48	IEC 60243-1	
Dielectric constant		2,35	IEC 60250	50 kHz
Dielectric loss factor		2,35	IEC 60250	1 kHz
Dielectric loss factor	tan	3,5 x 10 ⁻⁴	IEC 60250	10 ⁶ Hz
Thermal				
Coëfficiënt of lineair expansion	10 ⁻⁴ *K ⁻¹	1,5 - 2,0	DIN 53752	
Service temperature	°C	-50 to 80		
Fire classification				
Fire rating DE		B2	DIN 4102	

The technical data given in this sheet correspond to our current state of knowledge and should not be construed as an agreement or guarantee regarding certain properties of our products. The decision on the suitability of a particular material for a specific application is up to the user. We reserve the right to modify the given data. Errors of the given data are reserved.