



Material: HDPE - PE300

HDPE (High Density Polyethylene) has excellent impact strength even at temperatures as low as -30°C. Properties of this material include; low coefficient of friction, easily fabricated, high chemical resistance, food safe and very good electrical and dielectric properties.

Technical Specification

Property	Test Method	Units	Value
Colour	-	-	Natural/Black
Density	ISO 1183	g/cm ³	0.954
Melt Index MFR 190/5	ISO 1133	g/10min	0.45+/-0.05
Melt Index MFR 190/21.6	ISO 1133	g/10min	11+/- 0.1
Service Temp Upper	-	°c	90
Service Temp Lower	-	°c	-50
Yield Stress	ISO 527 : 50mm/min	N/mm ²	>23
Elongation at yield Stress	ISO 527 : 50mm/min	%	=8
Breaking stress	ISO 527 : 50mm/min	N/mm ²	=32
Elongation at break	ISO 527 : 50mm/min	%	>50
Elastic modulus	ISO 527	N/mm ²	=700
Ball indentation hardness : 30 sec value	ISO 2039-1	N/mm ²	>40
Shore Hardness D : 3 sec value	ISO 868	-	60
Shore Hardness D : 15 sec value	ISO 868	-	59
Notched impact strength	ISO 179	mJ/mm ²	12
Wear by the sand and slurry method	Internal Test Method	-	1000
Vicat Softening Point VST	ISO 306/B	°c	67
Crystalline melting range	ISO 3146	°c	130
Linear thermal expansion coefficient (23-80°C)	DIN 53752	k-1	2 x 10 ⁻⁴
Thermal Conductivity	DIN 52612	W/(K.m)	0.41
Volume resistivity	VDE 0303/3	Ohm/cm	10 ¹⁶
Surface resistivity dry	VDE 0303/3	Ohm	10 ¹⁵
Arc resistance	VDE 0303/3	Grade	L4

Availability:

Available in a wide variety of sheets, rods, profiles and weld rod. Can be supplied to a colour match, talc-filled and in conductive forms. Please call for further details.

Applications:

Widely used in automotive, leisure and industrial applications and is particularly suitable for the fabrication of tanks, silo's, hoppers etc.