

Technical Data Sheet

Lupolen 5261Z HI

High Density Polyethylene



Product Description

Lupolen 5261Z HI is a high density polyethylene with outstanding impact resistance, high rigidity, good chemical resistance and good ESCR. It is delivered in powder form and contains antioxidants. Typical customer applications include L-ring drums for the packaging of dangerous goods. *Lupolen* 5261Z HI is not intended for use in medical and pharmaceutical applications.

Application	Drums; Industrial Packaging
Market	Industrial Packaging
Processing Method	Extrusion Blow Molding
Attribute	Antioxidant; Good Chemical Resistance; High ESCR (Environmental Stress Cracking Resistance); High Impact Resistance; High Rigidity

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/21.6 kg)	2.0	g/10 min	ISO 1133-1
Density	0.954	g/cm ³	ISO 1183-1
Bulk Density	>0.460	g/cm ³	ISO 60
Intrinsic Viscosity	500	ml/g	ISO 1628-3
Mechanical			
Tensile Modulus	1200	MPa	ISO 527-1, -2
Tensile Stress at Yield	28	MPa	ISO 527-1, -2
Tensile Strain at Yield	8	%	ISO 527-1, -2
FNCT, (3.5 MPa, 2% Arkopal N100, 80 °C)	12	hr	ISO 16770
Impact			
Tensile Impact Strength	280	kJ/m ²	ISO 8256
Note: notched, type 1, method A, -30 °C			
Hardness			
Ball Indentation Hardness, (H 132/30)	52	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A/50 N)	133	°C	ISO 306
Deflection Temperature Under Load			
(0.45 MPa, Unannealed)	75	°C	ISO 75B-1, -2
(1.80 MPa, Unannealed)	44	°C	ISO 75A-1, -2
Processing Parameters			
Melt Temperature	190 - 220	°C	

