

Technical Data Sheet

Lupolen 5261ZS

High Density Polyethylene



Product Description

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

Application	Drums; Industrial Packaging; Jerry Cans
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	0.951	g/cm ³	ISO 1183-1
Bulk Density	>0.460	g/cm ³	ISO 60
Intrinsic Viscosity	475	ml/g	ISO 1628-3
Mechanical			
Tensile Modulus	1000	MPa	ISO 527-1, -2
Tensile Stress at Yield	26	MPa	ISO 527-1, -2
Tensile Strain at Yield	9	%	ISO 527-1, -2
FNCT, (3.5 MPa, 2% Arkopal N100, 80 °C)	20	hr	ISO 16770
Impact			
Tensile Impact Strength	250	kJ/m ²	ISO 8256
Note: notched, type 1, method A, -30 °C			
Hardness			
Ball Indentation Hardness, (H 132/30)	47	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(A/50 N)	130	°C	ISO 306
(B50)	78	°C	ISO 306
Deflection Temperature Under Load			
(0.45 MPa, Unannealed)	74	°C	ISO 75B-1, -2
(1.80 MPa, Unannealed)	42	°C	ISO 75A-1, -2
Peak Melting Point	133	°C	ISO 11357-3
Processing Parameters			
Melt Temperature	190 - 220	°C	

Notes

These are typical property values not to be construed as specification limits.

