

Lupolen 5261 ZS

Polyethylene, High Density

Product Description

Lupolen 5261 ZS 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 5261 ZS** is not intended for use in medical and pharmaceutical applications.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Processing Methods	Extrusion Blow Molding
Features	Antioxidant, Good Chemical Resistance, High ESCR (Environmental Stress Cracking Resistance), High Impact Resistance , High Rigidity
Typical Customer Applications	Blow Moulding Applications, Drums, Jerry Cans

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.951	g/cm ³
Melt flow rate (MFR) (190°C/21.6kg)	ISO 1133	2.0	g/10 min
Bulk density	ISO 60	>0.460	g/cm ³
Mechanical			
Tensile Modulus (23 °C)	ISO 527-1, -2	1000	MPa
Tensile Stress at Yield (23 °C)	ISO 527-1, -2	26.0	MPa
Tensile Strain at Yield	ISO 527-1, -2	9.0	%
Tensile Impact Strength (Type 1, Method A, -30 °C)	ISO 8256	250	kJ/m ²
Note: notched			
Hardness			
Ball indentation hardness (H 132/30)	ISO 2039-1	47.0	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	74.0	°C
Heat deflection temperature A (1.80 MPa) Unannealed	ISO 75A-1, -2	42.0	°C
Vicat softening temperature	ISO 306		
(A50 (50°C/h 10N))		130	°C
(B50 (50°C/h 50N))		78	°C
Melting Temperature	ISO 3146	133	°C

Additional Properties

ESCR (FNCT 3.5 MPa / 80°C, 2% Arkopal N100)(ISO 16770): 20 h
 Electric Strength (IEC 93, K20/P50): >150 kV/mm
 Staudinger Index Jg (ISO 1628): 475 ml/g
 Processing Temperature Range: 190 - 220 °C

