

Lupolen 4261 A Q149

Polyethylene, High Density

Product Description

Lupolen 4261 A Q149 is a high density polyethylene with an outstanding ESCR, good chemical resistance and high impact resistance. It is delivered in powder form without any additives. Typical customer applications include IBC, drums and jerry cans for the packaging of dangerous goods. **Lupolen 4261 A Q149** is not intended for use in medical and pharmaceutical applications.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, North America, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Extrusion Blow Molding
Features	Good Chemical Resistance, High ESCR (Environmental Stress Cracking Resistance), High Impact Resistance
Typical Customer Applications	Drums, IBCs, Jerry Cans

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.945	g/cm ³
Melt flow rate (MFR) (190°C/21.6kg)	ISO 1133	6.0	g/10 min
FNCT (3.5 MPa, 2% Arkopal N100, 80°C)	ISO 16770	60	h
Mechanical			
Tensile Modulus	ISO 527-1, -2	850	MPa
Tensile Stress at Yield	ISO 527-1, -2	24.0	MPa
Tensile Strain at Yield	ISO 527-1, -2	10	%
Tensile Impact Strength (Type 1, Method A, -30 °C)	ISO 8256	170	kJ/m ²
Note: notched			
Hardness			
Ball indentation hardness (H 132/30)	ISO 2039-1	40.0	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	70.0	°C
Heat deflection temperature A (1.80 MPa) Unannealed	ISO 75A-1, -2	42.0	°C
Vicat softening temperature	ISO 306		
(B50 (50°C/h 50N))		75.0	°C
(A50 (50°C/h 10N))		125	°C
Melting Temperature	ISO 3146	130	°C

