Lupolen 4261 A Q 149

High Density Polyethylene

LyondellBasell Industries

Message:

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.

General Information			
Features	High ESCR (Stress Cracking Resistance) Impact resistance, high Good chemical resistance		
Uses	Packaging Blow molding applications Industrial application Drum Oil drum		
Forms	Powder		
Processing Method	Extrusion blow molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.945	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	6.0	g/10 min	ISO 1133
FNCT - 3.5 MPa, 2% Igepal BC/9 (80°C)	2.5	day	ISO 16770
Staudinger Index	370	cm³/g	ISO 1628
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness (H 132/30)	40.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	850	MPa	ISO 527-2
Tensile Stress (Yield)	24.0	MPa	ISO 527-2
Tensile Strain (Yield)	10	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Tensile Impact Strength (-30°C)	170	kJ/m²	ISO 8256/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	70.0	°C	ISO 75-2/B
1.8 MPa, not annealed	42.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	125	°C	ISO 306/A50

--	75.0	°C	ISO 306/B50
Melting Temperature (DSC)	130	°C	ISO 3146

Extrusion	Nominal Value	Unit
Melt Temperature	180 - 220	°C

Extrusion instructions

Processing temperature range: 180 - 200 °C. As product does not contain antioxidants it should be processed at lowest possible temperature and by using inert gas in the hopper in order to reduce contact with oxygen which might lead to degradation.

Recommended distributors for this material

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