

Lupolen 4261 A Q 135

High Density (HMW) Polyethylene

LyondellBasell Industries

Technical Data

Product Description

Lupolen 4261 A Q135 is a high molecular weight high density polyethylene (HDPE). Typical customer applications include automotive fuel tank applications. It is supplied in powder form and is stabilized with antioxidants for the extrusion process. The product features an outstanding Environmental Stress Cracking Resistance (ESCR), good chemical resistance in combination with an excellent low temperature impact resistance. Typical processes include blow molding and thermoforming.

Lupolen 4261 A Q135 is not intended for use in medical and pharmaceutical applications.

General

Material Status	• Commercial: Active		
Literature ¹	• Processing - Mold Shrink (English) • Processing - PE Films (English) • Processing - Polyolefin Injection Molding Guide (English) • Technical Datasheet (English)		
Search for UL Yellow Card	• LyondellBasell Industries • Lupolen		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Antioxidant		
Features	• Antioxidant • Good Chemical Resistance	• High ESCR (Stress Crack Resist.) • High Impact Resistance	• Low Temperature Impact Resistance
Uses	• Fuel Tanks		
Forms	• Powder		
Processing Method	• Extrusion	• Extrusion Blow Molding	• Thermoforming

Physical	Nominal Value Unit	Test Method
Density	0.945 g/cm ³	ISO 1183
Apparent Density	0.49 g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	6.0 g/10 min	ISO 1133
Environmental Stress-Cracking Resistance	1000 hr	ASTM D1693B
FNCT ³ (80°C)	3.3 day	ISO 16770

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	900 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		ISO 8256/1B
-30°C	170 kJ/m ²	
23°C	250 kJ/m ²	

Thermal	Nominal Value Unit	Test Method
Melting Temperature (DSC)	131 °C	ISO 3146

Extrusion	Nominal Value Unit
Melt Temperature	180 to 220 °C

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 3.5 MPa, 2% Igepal BC/9