

# Lupolen 4261 A Q 135

High Density (HMW) Polyethylene

LyondellBasell Industries

Message:

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 Information			
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 <sup>3</sup>	ISO 1183
Apparent Density	0.49	g/cm <sup>3</sup>	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 <sup>1</sup> (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 8256/1A
-30°C	170	kJ/m <sup>2</sup>	
23°C	250	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	131	°C	ISO 3146
Extrusion	Nominal Value	Unit	

Melt Temperature	180 to 220	°C
NOTE		

1. 3.5 MPa, 2% Igepal BC/9

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#### Recommended distributors for this material

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