

Lupolen 4261 A Q 135

Polyethylene, High Density

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.

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, Extrusion Thermoforming
Features	Antioxidant, High ESCR (Environmental Stress Cracking Resistance), High Impact Resistance
Typical Customer Applications	Fuel Tanks

Typical Properties	Method	Value	Unit
Physical			
Density <i>Note: at 23°C</i>	ISO 1183	0.945	g/cm ³
Bulk density	ISO 60	490	g/cm ³
Melt flow rate (190/21,6)	ISO 1133	6	g/10 min
FNCT (3.5 MPa, 2% Arkopal N100, 80°C)	ISO 16770	80	h
Mechanical			
ESCR <i>Note: Method B</i>	ASTM D 1693	1000	h
Tensile Impact Strength <i>Note: -30 °C, notched, Method 1/A</i> <i>Note: +23 °C, notched, Method 1/A</i>	ISO 8256	170 250	kJ/m ² kJ/m ²
Elongation at yield <i>Note: Method 2</i>	ISO 527	10	%
Tensile stress at yield <i>Note: Method 2</i>	ISO 527	24	MPa
Tensile modulus	ISO 527	900	MPa
Thermal			
Melting Temperature	ISO 3146	131	°C

