Technical Data Sheet

Lupolen 4261AG

High Density Polyethylene

Product Description

Lupolen 4261AG is a high molecular weight high density polyethylene. Typical customer applications include automotive fuel tanks. It is supplied in pellets 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 4261AG is not intended for use in medical and pharmaceutical applications. The product can not be used for food contact applications.

Application	Fuel Tanks; Non-fuel Reservoirs
Market	Automotive
Processing Method	Extrusion Blow Molding; Thermoforming
Attribute	Antioxidant; High ESCR (Environmental Stress Cracking Resistance); High Impact Resistance

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/21.6 kg)	6.0	g/10 min	ASTM D1238
Density, (23 °C)	0.945	g/cm³	ASTM D1505
Mechanical			
Flexural Modulus	1070	MPa	ASTM D790
Tensile Strength at Yield, (50 mm/min)	23.1	MPa	ASTM D638
Type IV bar die cut or machined			
Tensile Elongation at Break, (50 mm/min)	600	%	ASTM D638
Type IV bar die cut or machined			
Environmental Stress Crack Resistance, F_{50} (100% Igepal®, Cond A)	>2000	hr	ASTM D1693
Processing Parameters			
Melt Temperature	180 - 240	°C	