

Technical Data Sheet

Lupolen 5121 A

High Density Polyethylene



Product Description

Lupolen 5121 A is a high molecular weight high density polyethylene resin used in blow molding applications. Typical customer applications include packagings for dangerous goods and consumer goods. It exhibits high rigidity and ESCR as well as good flowability and organoleptic properties. *Lupolen* 5121 A is delivered in pellet form, contains antioxidants and has a broad molecular weight distribution. *Lupolen* 5121 A is not intended for use in medical and pharmaceutical applications.

Application	Industrial Packaging; Jerry Cans
Market	Industrial Packaging
Processing Method	Extrusion Blow Molding
Attribute	Antioxidant; Good Chemical Resistance; Good Processability; 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)	5.0	g/10 min	ISO 1133-1
Density	0.951	g/cm ³	ISO 1183-1
Bulk Density	>0.500	g/cm ³	ISO 60
Mechanical			
Tensile Modulus	1050	MPa	ISO 527-1, -2
Tensile Stress at Yield	25	MPa	ISO 527-1, -2
Tensile Strain at Yield	7	%	ISO 527-1, -2
FNCT, (3.5 MPa, 2% Arkopal N100, 80 °C)	16	hr	ISO 16770
Impact			
Tensile Impact Strength	150	kJ/m ²	ISO 8256
Note: notched, type 1, method A, -30 °C			
Thermal			
Peak Melting Point	131	°C	ISO 11357-3
Processing Parameters			
Melt Temperature	180 - 220	°C	

Notes

These are typical property values not to be construed as specification limits.

