

Technical Data Sheet

Lupolen GX 5038

High Density Polyethylene



Product Description

Lupolen GX 5038 is a new generation hexene linear high-density polyethylene for injection molding. Typical customer applications may include SCR reservoirs (SCR = Selective Catalytic Reduction) and components for automotive fuel tank applications. *Lupolen* GX 5038 is a pelletized polymer. It is not intended for use in medical and pharmaceutical applications.

Application	Fuel Tanks; Non-fuel Reservoirs
Market	Automotive
Processing Method	Injection Molding
Attribute	Good Processability; High ESCR (Environmental Stress Cracking Resistance); High Flow; Low Temperature Impact Resistance; Low Warpage

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	2.0	g/10 min	ISO 1133-1
Density	0.945	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	900	MPa	ISO 527-1, -2
Tensile Stress at Yield	22	MPa	ISO 527-1, -2
Tensile Strain at Yield	10	%	ISO 527-1, -2
FNCT, (6.0 MPa, 2% Arkopal N100, 50 °C)	35	hr	ISO 16770
Impact			
Tensile Impact Strength	100	kJ/m ²	ISO 8256
Note: notched, type 1, method A, -30 °C			
Processing Parameters			
Injection Moulding Temperature	190 - 230	°C	

Notes

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

