

Technical Data Sheet

lcorene POLYETHYLENE LP 390-01 C1 NAT



Polyethylene, High Density Copolymer

Product Description

LP 390-01 natural is a narrow molecular weight copolymer, high density polyethylene combining excellent impact strength with good environmental stress crack resistance.

Processing Method	Compounding; Injection Molding
Attribute	Copolymer; Food Contact Acceptable; Good Impact Resistance; High ESCR (Environmental Stress Cracking Resistance); Narrow Molecular Weight Distribution
Forms	Pellets
Appearance	Natural Color

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	7.0	g/10 min	ASTM D1238
Density	0.952	g/cm ³	ASTM D1505
Mechanical			
Tensile Strength at Yield, (51 mm/min)	27.6	MPa	ASTM D638
Environmental Stress Crack Resistance, (Condition B, F50)	5.00	hr	ASTM D1693
Flexural Modulus, (Tangent)	1280	MPa	ASTM D790
Tensile Elongation at Break, (51 mm/min)	1000	%	ASTM D638
Impact			
Gardner Impact, (-40 °C)	32.5	J	ASTM D3029
Notched Izod Impact	>53	J/m	ASTM D256
Hardness			
Durometer Hardness, (Shore D)	59		ASTM D2240
Thermal			
Vicat Softening Temperature	128	°C	ASTM D1525