

Technical Data Sheet

Icorene 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.

Regulatory Status

For regulatory compliance information, see POLYETHYLENE LP 390-01 C1 NAT [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Asia-Pacific; North America
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

Notes

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

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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