

Technical Data Sheet

Icorene POLYETHYLENE CP 814-01 NATURAL



Linear Low Density Polyethylene

Product Description

CP 814-01 Natural is a linear low-density polyethylene resin with excellent molding characteristics and good low temperature impact. This product meets the specifications contained in FDA Regulation CFR 177.1520, (c) 2.1.

Regulatory Status

For regulatory compliance information, see POLYETHYLENE CP 814-01 NATURAL [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Discontinued
Availability	Asia-Pacific; North America
Processing Method	Compounding; Injection Molding
Attribute	Good Moldability; Good Processability; Low Temperature Impact Resistance
Forms	Pellets
Appearance	Natural Color

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	50	g/10 min	ASTM D1238
Density - Specific Gravity	0.924	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Yield, (51 mm/min)	15.2	MPa	ASTM D638
Environmental Stress Crack Resistance, (Condition C, F50)	30.0	hr	ASTM D1693
Flexural Modulus, (1% Secant)	483	MPa	ASTM D790
Tensile Elongation at Break, (51 mm/min)	180	%	ASTM D638
Impact			
Gardner Impact, (40 °C)	27.1	J	ASTM D5420
Ductile/Brittle Transition Temperature	-71	°C	ASTM D746
Hardness			
Durometer Hardness, (Shore D)	60		ASTM D2240
Thermal			
Vicat Softening Temperature	84.4	°C	ASTM D1525
Melting Temperature	122	°C	

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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