

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.

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	