

CIPLAS LDD2020B Low Density Polyethylene

Categories: [Polymer](#); [Thermoplastic](#); [Polyethylene \(PE\)](#); [Low Density \(LDPE\)](#); [Low Density Polyethylene \(LDPE\), Film Grade](#)

Material Notes: Product Overview: LDD2020B resin is a barefoot general purpose liner resin for thin gauge applications requiring good drawdown and excellent toughness for blown and cast film extrusion.

Additive:
Antiblock: No; Slip: No

Information provided by CIPLAS by ITOCHU

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	<u>0.920</u> g/cc	<u>0.0332</u> lb/in ³	ASTM D792
Environmental Stress Crack Resistance	<u>2.0</u> hour	<u>2.0</u> hour	ASTM D1693
Melt Flow	<u>2.0</u> g/10 min @Load 2.16 kg, Temperature 190 °C	<u>2.0</u> g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	45	45	ASTM D2240
Tensile Strength at Break	<u>11.0</u> MPa	1600 psi	ASTM D638
Tensile Strength, Yield	<u>8.96</u> MPa	<u>1300</u> psi	ASTM D638
Elongation at Break	600 %	600 %	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
2% Secant Modulus	<u>0.234</u> GPa	<u>34.0</u> ksi	Flexural; ASTM D790
Tensile Impact Strength	<u>147</u> kJ/m ²	<u>69.9</u> ft-lb/in ²	ASTM D1822

Thermal Properties	Metric	English	Comments
Melting Point	<u>112</u> °C	<u>234</u> °F	
Crystallization Temperature	<u>98.3</u> °C	<u>209</u> °F	Peak
Deflection Temperature at 0.46 MPa (66 psi)	<u>38.3</u> °C	<u>101</u> °F	ASTM D648
Vicat Softening Point	<u>95.0</u> °C	<u>203</u> °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze 	<u>4.8</u> % @Thickness 0.0254 mm	<u>4.8</u> % @Thickness 0.00100 in	Cast Film; ASTM D1003
	<u>7.6</u> % @Thickness 0.0508 mm	<u>7.6</u> % @Thickness 0.00200 in	Blown Film; ASTM D1003
Gloss 	<u>66</u> % @Thickness 0.0508 mm	<u>66</u> % @Thickness 0.00200 in	45°, Blown Film; ASTM D2457
	<u>75</u> % @Thickness 0.0254 mm	<u>75</u> % @Thickness 0.00100 in	45°, Cast Film; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	<u>199</u> °C	<u>390</u> °F	
Blow-up Ratio (BUR)	2.5	2.5	
Screw Speed	<u>60</u> rpm	<u>60</u> rpm	