

Material Properties

Resin Property	ASTM Test Method	Typical Value
Melt Index/g/10 min	D 1238	0.25
Base Resin Density/g/cc	D 1505	0.918
Vicat Softening point/°C	D 1525	90
Film		
Dart Drop Impact Strength, F50/g	D 1709	220
Tensile Strength, MD (TD)/psi	D 882	3,000
Elongation, MD (TD)/%	D 882	300
1% Secant Modulus, MD (TD)/psi	E 111	24,000
Elmendorf Tear Strength, MD (TD)/g	D 1922	220
Molding		
Low Temperature Brittleness,F50/°C	D 746	<-76
Tensile Strength @ Break/psi	D 638	2,100
Elongation @ Break/%	D 638	>600
Flexural Modulus/psi	D 790	34,000
Hardness, Shore D	D 2240	50
Environmental Stress Crack Resistance, # Failures in 100% Igepal®	0 in 7 days	

Product	LD020	LD020-A	LD020-SA
Slip	None	None	Low
Antiblock	None	High	High

Applications

- LD020 is a series of resins designed for heavy duty film applications. Superior puncture resistance combined with excellent impact properties make it an ideal choice for bags used to package fertilizer, peat moss, decorative stone and agricultural and construction materials.
- LD020 meets the requirements of the Food and Drug Administration, 21 CFR Section 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food." Specific limitations may apply.
- LD020 has been designed for excellent processability, bubble stability and good heat sealing over a wide range of extrusion conditions.
- Optimum properties are found at melt temperatures of 330° - 430° F (165° -221° C) and blow-up ratios between 1.8:1-2.5:1.
- Specific recommendations can be made only when the end use applications, properties and processing equipment are known. Consult your LAP sales representative.

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