

Technical Data Sheet

Lupolen 2221D

Low Density Polyethylene

Product Description

Lupolen 2221D is a fractional melt index homopolymer LDPE resin designed for film applications requiring excellent bubble stability/melt strength, impact strength, stiffness and shrink. 2221D is selected by customers for collation shrink films, pallet shrink films, packaging films and heavy duty films where processability, strength and stiffness are important. 2221D contains an antioxidant.

Application	Agriculture Film; Bags & Pouches; Can Liners; Clarity Film; Film Wrap; Food Packaging Film; Heavy Duty Packaging; Shrink Film; Stretch Hood; Textile Packaging Film
Market	Flexible Packaging
Processing Method	Blown Film

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	0.25	g/10 min	ASTM D1238
Base Resin Density, (23 °C)	0.9220	g/cm ³	ASTM D1505
Product Density, (23 °C)	0.9220	g/cm ³	ASTM D1505
Film			
Dart Drop Impact Strength, F50	190	g	ASTM D1709
Tensile Strength at Break			
MD	28	MPa	ASTM D882
TD	24	MPa	ASTM D882
Tensile Strength at Yield			
MD	12	MPa	ASTM D882
TD	12	MPa	ASTM D882
Tensile Elongation at Break			
MD	400	%	ASTM D882
TD	550	%	ASTM D882
1% Secant Modulus			
MD	220	MPa	ASTM D882
TD	250	MPa	ASTM D882
Elmendorf Tear Strength			
MD	170	g	ASTM D1922
TD	220	g	ASTM D1922
Optical			
Haze	7.5	%	ASTM D1003
Gloss	62		ASTM D2457
Additive			
Slip	None		LYB Method
Antiblock	None		LYB Method