Technical Data Sheet

Moplen EP222D

Polypropylene, Impact Copolymer

Product Description

LyondellBasell has developed the new *Moplen* grade EP222D. This new grade is produced using a non-phthalate catalyst system. *Moplen* EP222D offers good processability, particularly on blown and cast lines. This polypropylene heterophasic copolymer exhibits high impact, good puncture, good tear resistance, high seal strength and seal integrity, and its additive package makes it suitable for the process of siliconization.

Application	Adhesive Tape; Containers; Food Packaging Film; Heavy Duty Packaging; Lamination Film; Release Liner; Surface Protection Film
Market	Flexible Packaging
Processing Method	Blown Film; Cast Film; Extrusion Blow Molding; Pipe
Attribute	Good Processability; Impact Copolymer; Low Flow

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	0.9	g/10 min	ISO 1133-1
Density	0.90	g/cm³	ISO 1183-1
Mechanical			
Flexural Modulus	1075	MPa	ISO 178
Tensile Stress at Break	31	MPa	ISO 527-1, -2
Tensile Stress at Yield	26	MPa	ISO 527-1, -2
Tensile Strain at Break	>500	%	ISO 527-1, -2
Tensile Strain at Yield	14	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	70	kJ/m²	ISO 179-1/1eA
(-20 °C)	6	kJ/m²	ISO 179-1/1eA
Thermal			
Vicat Softening Temperature, (A/50)	152	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	83	°C	ISO 75B-1, -2