Technical Data Sheet

Moplen EP310J HP

Polypropylene, Impact Copolymer

Product Description

LyondellBasell has developed the new *Moplen* grade EP310J HP for the extrusion of films used for lamination on other substrates, which is highly appreciated by customers in the production of applications that can be processed under high retorting conditions. This new grade is produced using a non-phthalate catalyst system favored by customers in applications intended for food contact. The film viscosity achieved with *Moplen* EP310J HP offers good processability on cast, blown and BOPP lines. This polypropylene heterophasic copolymer exhibits high impact, good puncture, good tear resistance, high seal strength and seal integrity.

Application	Food Packaging Film; Lamination Film; Surface Protection Film
Market	Flexible Packaging
Processing Method	Blown Film; Cast Film
Attribute	Good Processability; Impact Copolymer; Medium Flow

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	3.0	g/10 min	ISO 1133-1
Density	0.90	g/cm³	ISO 1183-1
Mechanical			
Flexural Modulus	1400	MPa	ISO 178
Tensile Modulus	1100	MPa	ISO 527-1, -2
Tensile Stress at Break	54	MPa	ISO 527-1, -2
Tensile Stress at Yield	30	MPa	ISO 527-1, -2
Film			
Tensile Elongation at Break, MD	1175	%	ISO 527-1, -3
Tensile Elongation at Yield, MD	13	%	ISO 527-1, -3
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	42.5	kJ/m²	ISO 179-1/1eA
(-20 °C, Type 1, Edgewise, Notch A)	1.5	kJ/m²	ISO 179-1/1eA
Thermal			
Melting Temperature	166	°C	LYB Method
Crystallization Temperature	122	°C	LYB Method
Optical			
Haze, (70 µm)	6	%	ASTM D1003
Gloss	72	%	ASTM D2457