

Technical Data Sheet

Moplen EP310M HP



Polypropylene, Impact Copolymer

Product Description

Moplen EP310M HP is a heterophasic copolymer, used in film applications for lamination on other substrates where high impact at room and low temperatures is needed. Moreover EP310M HP features a good stiffness. 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 EP310M HP offers good processability on cast lines. This polypropylene heterophasic copolymer exhibits high impact, good puncture, good tear resistance, high seal strength and seal integrity.

Application	Bags & Pouches; Food Packaging Film; Impact Modification; Lamination Film; Surface Protection Film
Market	Flexible Packaging
Processing Method	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)	7.5	g/10 min	ISO 1133-1
Density	0.90	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1050	MPa	ISO 527-1, -2
Tensile Stress at Break	16.7	MPa	ISO 527-1, -2
Tensile Stress at Yield	21	MPa	ISO 527-1, -2
Tensile Strain at Break	36	%	ISO 527-1, -2
Tensile Strain at Yield	6	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	45	kJ/m ²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	9	kJ/m ²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	7	kJ/m ²	ISO 179
Ductile/Brittle Transition Temperature	-55	°C	ISO 6603-2
Hardness			
Ball Indentation Hardness	46	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A50)	144	°C	ISO 306
Deflection Temperature Under Load, (0.45 MPa, Unannealed)	80	°C	ISO 75B-1, -2