(+) 188 1699 6168 hongrunplastics.com

Technical Data Sheet

Circulen EP310M HP

Polypropylene, Impact Copolymer



Product Description

Circulen EP310M HP is a circular polymer, which contains building blocks from non-mechanical recycling processes converting renewables and organic or plastic wastes into new cracker feedstock. The content of recycled cracker feedstock is certified by mass balance.

Circulen 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 Circulen 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 Circulen 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.

Status Commercial: Active

Availability Africa-Middle East; Europe

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

	Nominal		
Typical Properties	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/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	1050	MPa	ISO 527-1, -2
Tensile Stress at Yield	21	MPa	ISO 527-1, -2
Tensile Strain at Break		%	ISO 527-1, -2
Tensile Strain at Yield	6	%	ISO 527-1, -2
mpact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	45	kJ/m²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	9	kJ/m²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	7	kJ/m²	ISO 179
Ductile/Brittle Transition Temperature	-55	°C	ISO 6603-2
Hardness			
Ball Indentation Hardness	46	MPa	ISO 2039-1
Thermal Thermal			
Vicat Softening Temperature, (A50)	144	°C	ISO 306

(+) 188 1699 6168 hongrunplastics.com

Deflection Temperature Under Load, (0.45 MPa, 80 °C ISO 75B-1, -2 Unannealed)

Notes

These are typical property values not to be construed as specification limits.