Polypropylene M6571

Technical Data Sheet
Polypropylene – Random Copolymer
Produced in the United States

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Description

Polypropylene M6571 is produced with TotalEnergies Petrochemicals and Refining proprietary catalyst technology. It offers exceptional optical performance and low residual content compared to standard isotactic polypropylene.

FDA – M6571 complies with all applicable FDA regulations for food contact applications.

Applications – M6571 is designed for use in film applications but is also suitable for injection molding applications that do not require nucleation.

Processing – M6571 resin processes on conventional injection molding equipment with typical melt temperatures of 390˚F-450˚F (200˚C-232˚C).

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238	g/10 min	9
Mechanical Properties			
Tensile Strength @ Yield	D-638	psi (MPa)	4,500 (31)
Tensile Elongation @ Yield	D-638	%	7.5
Tensile Modulus	D-638	psi (MPa)	185,000 (1,275)
Flexural Modulus	D-790	psi (MPa)	160,000 (1,105)
Izod Impact (Notched) @73°F	D-256A	ft-lb/in (J/m)	0.6 (32)
Thermal Properties(1)			
Melting Point	DSC(2)	°F (°C)	289 (143)
Heat Deflection @ 66 psi @ 4.64 kg/cm^2	D-648	 °F °C	 200 93
Other Physical Properties			
Density	D-1505	g/cc	0.900

(1) Data developed under laboratory conditions and are not to be used as specification maxima or minima.
(2) MP determined with a DSC-2 Differential Scanning Calorimeter. Test procedure available upon request.

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All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of TotalEnergies products must be guided by the useruser's methods for selection of proper formulation. TotalEnergies Petrochemicals & Refining USA Inc. disclaims any responsibility for misuse or misapplication of its products. TotalEnergies MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TotalEnergies' liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.