TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 4170

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

Description

Polypropylene 4170 is an impact copolymer with a low melt flow of 0.8 g/10min.

4170 polypropylene has a low fluidity providing melt strength with excellent impact properties.

4170 is designed to be particularly suited for profile and sheet extrusion, extrusion-thermoforming, blown film, and corrugated cardboard manufacture.

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238	g/10 min	0.8
Mechanical Properties(1)			
Tensile Strength at Yield	D-638	psi (MPa)	3,900 (27)
Elongation at Yield	D-638	%	11
Flexural Modulus	D-790	psi (MPa)	165,000 (1,140)
Izod Impact Notched @ 23ºC @ -20ºC	 D-256 D-256	 ft-lb/in (J/m) ft-lb/in (J/m)	 No Break (No Break) 1.5 (80)
Thermal Properties(1)			
Melting Point	DSC(2)	°F (°C)	320-329 (160-165)
Heat Deflection	D-648	°F (°C)	194 (90)
Other Physical Properties			
Density	D-1505	g/cm^3	0.905

(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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Polypropylene

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