


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 @ 23°C	D-256	ft.-lbs/in. (J/m)	No Break (No Break)
@ -20°C	D-256	ft.-lbs/in. (J/m)	1.5 (80)
Thermal Properties⁽¹⁾			
Melting Point	TOTAL Polypropylene Method	°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.

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