



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)
@ -20°C	D-256	ft.-lbs/in. (J/m)
		No Break (No Break) 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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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 users own 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.

Polypropylene

