

Total PPC 4170 Polypropylene, Impact Copolymer, Blown Film Grade

Category : Polymer , Film , Thermoplastic , Polypropylene (PP) , Polypropylene, Film Grade

Material Notes:

TOTAL Petrochemicals Polypropylene 4170 is a polypropylene impact copolymer grade with good melt strength for use in the extrusion of blown films. Benefits. 4170 forms tough films with high dart impact strength, high heat resistance and excellent processability. FDA. 4170 complies with FDA regulations in paragraph (c) 3.2a of 21 CFR Section 177.1520 and may be used for articles or components of articles for contacting food during cooking. Recommended Applications. 4170 is recommended for use in blown film processes for the manufacture of heavy-duty bags, higher temperature requirement films, and matte finish labels. It can be used pure or in a variety of blended formulations for monolayer of co-extrusion applications. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPC-4170-Polypropylene-Impact-Copolymer-Blown-Film-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.905 g/cc	0.905 g/cc	ASTM D1505
Water Vapor Transmission	6.98 g/m ² /day @Temperature 37.8 °C	0.450 g/100 in ² /day @Temperature 100 °F	100% RH; ASTM F1249
Oxygen Transmission Rate	2100 cc/m ² /day @Temperature 22.8 °C	135 cc/100 in ² /day @Temperature 73.0 °F	0% RH; ASTM D3985
Melt Flow	0.75 g/10 min @Temperature 230 °C	0.75 g/10 min @Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	26.2 MPa	3800 psi	ASTM D882
Film Tensile Strength at Yield, TD	24.8 MPa	3600 psi	ASTM D882
Film Elongation at Break, MD	750 %	750 %	ASTM D882
Film Elongation at Break, TD	770 %	770 %	ASTM D882
2% Secant Modulus	0.600 GPa	87.0 ksi	TD; ASTM D882
	0.689 GPa	100 ksi	MD; ASTM D882
Elmendorf Tear Strength MD	55 g	55 g	ASTM D1922
Elmendorf Tear Strength TD	300 g	300 g	ASTM D1922
Dart Drop Test	350 g	0.772 lb	ASTM D1709, Method A
Film Tensile Strength at Break, MD	58.6 MPa	8500 psi	ASTM D882

Film Tensile Strength at Break, TD Mechanical Properties	37.9 MPa Metric	5500 psi English	ASTM D882 Comments
Thermal Properties	Metric	English	Comments
Melting Point	160 - 165 °C	320 - 329 °F	DSC
Optical Properties	Metric	English	Comments
Haze	72 %	72 %	ASTM D1003
Gloss	7.0 %	7.0 %	at 45°; ASTM D2457
Processing Properties	Metric	English	Comments
Melt Temperature	210 - 250 °C	410 - 482 °F	

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