TOTAL Polypropylene PPC 4170

Polypropylene Impact Copolymer

TOTAL Refining & Chemicals

Message:

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.

General Information			
Features	Good Melt Strength Good Processability High Heat Resistance Impact Copolymer		
Uses	Film		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Processing Method	Blown Film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.905	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.75	g/10 min	ASTM D1238
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	50	µm	
Secant Modulus			ASTM D882
2% Secant, MD : 50 µm, Blown Film	690	MPa	
2% Secant, TD : 50 µm, Blown Film	600	MPa	
Tensile Strength			ASTM D882
MD : Yield,50 µm, Blown Film	26.0	MPa	
TD : Yield,50 µm, Blown Film	25.0	MPa	
MD : Break, 50 µm,Blown Film	59.0	MPa	
TD : Break, 50 µm,Blown Film	38.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 50 µm,Blown Film	750	%	
TD : Break, 50 µm,Blown Film	770	%	
Dart Drop Impact (50 µm, Blown Film)	350	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 50 µm, Blown Film	55	g	
TD : 50 µm, Blown Film	300	g	
Oxygen Transmission Rate (23°C, 0% RH, 50 µm, Blown Film)	2100	cm³/m²/24 hr	ASTM D3985
Water Vapor Transmission Rate (38°C, 100% RH, 50 µm, Blown Film)	7.0	g/m²/24 hr	ASTM F1249

Thermal	Nominal Value	Unit	Test Method
Melting Temperature	160 to 165	°C	DSC
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 50.0 µm, Blown Film)	7		ASTM D2457
Haze (50.0 µm, Blown Film)	72	%	ASTM D1003
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	210 to 250	°C	

Recommended distributors for this material

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