

TOTAL Polypropylene PPH 4070

Polypropylene Homopolymer

TOTAL Refining & Chemicals

Message:

Polypropylene PPH 4070 is homopolymer with a Melt Flow Index of 3 g/10 min.
Polypropylene PPH 4070 has been designed for the production of BOPP film with the tenter frame process and for the production of cast film. The product offers an excellent processability and allows the production of films with a very high modulus. Polypropylene PPH 4070 is suitable for metallizable films. It is calcium stearate free.

General Information			
Features	Good Processability		
	Homopolymer		
Uses	Bi-axially Oriented Film		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Tenter Process		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Apparent Density	0.53	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	94		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1950	MPa	ISO 527-2
Tensile Stress (Yield)	37.0	MPa	ISO 527-2
Tensile Strain (Yield)	9.0	%	ISO 527-2
Flexural Modulus	1900	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179
Notched Izod Impact Strength (23°C)	5.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	106	°C	ISO 75-2/B
1.8 MPa, Unannealed	58.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	152	°C	ISO 306/A50
--	90.0	°C	ISO 306/B50
Melting Temperature (DSC)	165	°C	ISO 3146

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