

TOTAL Polypropylene PPH 5042

Polypropylene Homopolymer

TOTAL Refining & Chemicals

Message:

Polypropylene PPH 5042 is an homopolymer with a Melt Flow Index of 6 g/10 min.
Polypropylene PPH 5042 has been specially designed for extrusion-thermoforming, where it gives improved rigidity and impact resistance combined with high clarity, reduced cycle times and good antistatic properties.
Polypropylene PPH 5042 is suitable for the injection moulding of household articles, toys, caps & closures, providing the benefits outlined above.

General Information	
Features	Antistatic
	Fast Molding Cycle
	Good Impact Resistance
	Good Stiffness
	High Clarity
Uses	Caps
	Closures
	Household Goods
	Toys
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS Compliant
Forms	Pellets
Processing Method	Extrusion
	Injection Molding
	Thermoforming

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)	6.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	95		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1600	MPa	ISO 527-2
Tensile Stress (Yield)	35.0	MPa	ISO 527-2
Tensile Strain (Yield)	9.0	%	ISO 527-2
Flexural Modulus	1550	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	105	°C	ISO 75-2/B
1.8 MPa, Unannealed	57.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	153	°C	ISO 306/A50
--	95.0	°C	ISO 306/B50
Melting Temperature (DSC)	165	°C	ISO 3146

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