

TOTAL Polypropylene PPH 4042

Polypropylene Homopolymer

TOTAL Refining & Chemicals

Message:

Polypropylene PPH 4042 is a nucleated homopolymer with a Melt Flow Index of 3 g/10min.
Polypropylene PPH 4042 has been developed for extrusion-thermoforming, providing improved rigidity and impact resistance combined with high clarity, reduced cycle times and good antistatic properties.
Polypropylene PPH 4042 is suitable for the injection moulding of technical and household items.

General Information			
Additive	Nucleating Agent		
Features	Antistatic		
	Fast Molding Cycle		
	Good Impact Resistance		
	Good Stiffness		
	High Clarity		
	Nucleated		
Uses	Household Goods		
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)	3.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	93		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1650	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)	6.5	kJ/m ²	ISO 179
Notched Izod Impact Strength (23°C)	5.5	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
--	90.0	°C	ISO 306/B50
Melting Temperature (DSC)	165	°C	ISO 3146

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