

TOTAL Polypropylene PPH 4022

Polypropylene Homopolymer

TOTAL Refining & Chemicals

Message:

Polypropylene PPH 4022 is a clarified nucleated homopolymer with a Melt Flow Index of 3 g/10 min.
Polypropylene PPH 4022 has been developed for extrusion-thermoforming, providing improved rigidity and impact resistance combined with a very high clarity, reduced cycle times and good antistatic properties.

General Information	
Additive	Clarifier
	Nucleating Agent
Features	Antistatic
	Fast Molding Cycle
	Good Impact Resistance
	Good Stiffness
	High Clarity
	Nucleated
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS Compliant
Forms	Pellets
Processing Method	Extrusion
	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)	95		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1800	MPa	ISO 527-2
Tensile Stress (Yield)	37.0	MPa	ISO 527-2
Tensile Strain (Yield)	9.0	%	ISO 527-2
Flexural Modulus	1700	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
--	93.0	°C	ISO 306/B50
Melting Temperature (DSC)	165	°C	ISO 3146

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