

TOTAL Polypropylene PPH 10042

Polypropylene Homopolymer

TOTAL Refining & Chemicals

Message:

Polypropylene PPH 10042 is a nucleated antistatic homopolymer with a high Melt Flow Index of 35 g/10 min. Polypropylene PPH 10042 is characterized by high fluidity for high speed injection of thin wall articles such as dairy pots & tubs, salad trays and caps & closures. Polypropylene PPH 10042 is nucleated and thus has improved rigidity. This coupled with a highly antistatic nature allows for shorter cycle times and easy demoulding.

General Information			
Additive	Antistatic Nucleating Agent		
Features	Antistatic Fast Molding Cycle Good Stiffness High Flow Nucleated		
Uses	Caps Closures Thin-walled Containers		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
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)	35	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	98		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1700	MPa	ISO 527-2
Tensile Stress (Yield)	35.0	MPa	ISO 527-2
Tensile Strain (Yield)	8.5	%	ISO 527-2
Flexural Modulus	1600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.5	kJ/m ²	ISO 179

Notched Izod Impact Strength (23°C)	3.0	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
--	90.0	°C	ISO 306/B50
Melting Temperature (DSC)	165	°C	ISO 3146

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

