

Hostacom M4 U05 102943

Polypropylene Homopolymer

LyondellBasell Industries

Message:

"Hostacom" M4 U05 is a 40% mineral filled PP homopolymer with high flow, high stiffness, low fogging and odour. Used typically for automotive air conditioning units. It is not intended for medical, pharmaceutical or drinking water applications.

General Information			
Filler / Reinforcement	Mineral,40% Filler by Weight		
Features	High Flow		
	High Stiffness		
	Homopolymer		
	Low to No Fogging		
	Low to No Odor		
Uses	Automotive Applications		
	Automotive Under the Hood		
Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	12.3	cm³/10min	ISO 1133
Molding Shrinkage	0.70 to 1.0	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	100	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant	4300	MPa	ISO 527-2
Tensile Stress (Yield)	32.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	3.0	%	
Break	4.0	%	
Flexural Modulus - Secant	4600	MPa	ISO 178
Flexural Stress (3.5% Strain)	53.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.5	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	13	kJ/m²	
23°C	25	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	137	°C	ISO 75-2/B

1.8 MPa, Unannealed	85.0	°C	ISO 75-2/A
8.0 MPa, Unannealed	55.0	°C	ISO 75-2/C
Vicat Softening Temperature			
--	155	°C	ISO 306/A50
--	100	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Carbon Emission - 5 hr (120°C)	< 50.0	µg/g	VW Norm PV 3341
Odor - 2 hr (80°C)	2.50		VW Norm PV 3900

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