

Hostacom PC072-3 natural

Polypropylene Homopolymer

LyondellBasell Industries

Message:

30% glass coupled PP- homopolymer. Low flow, high stiffness, low CLTE and outstanding LTHA values. Low creep under load at elevated temperatures. The product is designed for injection molding of washing machine parts and is available in natural color. Good hot water and detergent resistance. UL listing in all colors including RTI and compliance with UL 2157. It is not intended for medical, pharmaceutical and drinking water applications.

General Information			
UL YellowCard	E31765-230641	E229217-102275533	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Chemically Coupled		
	Detergent Resistant		
	Good Heat Aging Resistance		
	High Stiffness		
	Homopolymer		
	Low Flow		
Uses	Appliances		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238, ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/5.0 kg)	8.00	cm³/10min	ISO 1133
Molding Shrinkage	0.30 to 1.0	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	115	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant	6400	MPa	ISO 527-2
Tensile Strength			
Yield	90.0	MPa	ASTM D638
Yield, 23°C	85.0	MPa	ISO 527-2/50
Break	80.0	MPa	ISO 527-2/50
Tensile Elongation			
Break	3.0	%	ASTM D638
Break	3.5	%	ISO 527-2/50
Flexural Modulus			
--	6000	MPa	ASTM D790
Secant	5400	MPa	ISO 178

Flexural Stress	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	6.0	kJ/m ²	
23°C	9.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	35	kJ/m ²	
23°C	40	kJ/m ²	
Notched Izod Impact			ASTM D256
0°C	85	J/m	
23°C	100	J/m	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	155	°C	ISO 75-2/B
1.8 MPa, Unannealed	148	°C	ASTM D648
1.8 MPa, Unannealed	130	°C	ISO 75-2/A
Vicat Softening Temperature			
--	160	°C	ISO 306/A50
--	130	°C	ISO 306/B50
RTI Elec	105	°C	UL 746
RTI Imp	105	°C	UL 746
RTI Str	105	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.00 mm, ALL	HB		
1.50 mm, ALL	HB		
3.00 mm, ALL	HB		

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