

Hostacom PPR 4142

Polypropylene Copolymer
LyondellBasell Industries

Message:

"Hostacom" PPR 4142 is a unfilled polypropylene copolymer with good extraction resistance (hot water, steam). The product is designed for injection molding of dishwasher and washer parts exposed to hot water, steam and detergents and is available in natural color. It is not intended for medical, pharmaceutical or drinking water applications.

General Information			
Features	Copolymer		
	Detergent Resistant		
	Extraction Resistant		
	Good Thermal Aging Resistance		
	Medium Flow		
	Steam Resistant		
Uses	White Goods & Small Appliances		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.8	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	6.60	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	58.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	1200	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	57.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	> 6.0	%	ISO 527-2/50
Flexural Modulus - Secant (23°C)	1100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.5	kJ/m ²	
0°C	4.5	kJ/m ²	
23°C	7.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	> 50	kJ/m ²	
23°C	No Break		

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	75.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	150	°C	ISO 306/A50
--	70.0	°C	ISO 306/B50

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