

Hostacom G3 R05 105555

Polypropylene Homopolymer

LyondellBasell Industries

Message:

"Hostacom" G3 R05 105555 is a 30% glass fiber reinforced PP homopolymer (coupled). It combines excellent stiffness properties with good dimensional stability and low creep under load at elevated temperatures.

The grade is available in black color, pellet form. It is not intended for medical, pharmaceutical or drinking water applications.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Creep Resistance		
	Good Dimensional Stability		
	Heat Stabilized		
	High Rigidity		
	High Tensile Strength		
	Homopolymer		
	Low Flow		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	4.00	cm³/10min	ISO 1133
Molding Shrinkage			ISO 2554
Across Flow	1.0 to 1.2	%	
Flow	0.20 to 0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant	7000	MPa	ISO 527-2/1
Tensile Stress (Break)	100	MPa	ISO 527-2/50
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus - Secant	6500	MPa	ISO 178
Flexural Stress (3.5% Strain)	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.5	kJ/m²	
23°C	11	kJ/m²	
Charpy Unnotched Impact Strength (23°C)	50	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, Unannealed	160	°C	ISO 75-2/B
1.8 MPa, Unannealed	150	°C	ISO 75-2/A
Vicat Softening Temperature	138	°C	ISO 306/B50
CLTE			DIN 53752
Flow : 23 to 80°C	3.3E-5	cm/cm/°C	
Transverse : 23 to 80°C	6.4E-5	cm/cm/°C	

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