

Moplen HP548S

Polypropylene Homopolymer

LyondellBasell Industries

Message:

LyondellBasell Australias polypropylene grade HP548S is a high flow homopolymer with a modified molecular weight distribution. It is formulated with a general-purpose additive package and nucleant. HP548S has been formulated for use in thin walled packaging containers, caps and closures where rapid cycle times and enhanced rigidity are required.

General Information			
Additive	Nucleating Agent		
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Impact Resistance		
	High Flow		
	High Rigidity		
	Homopolymer		
	Nucleated		
Uses	Caps		
	Closures		
	Food Containers		
	Thin-walled Containers		
Agency Ratings	AS 2070-1999		
	FDA 21 CFR 177.1520(a) 1		
	FDA 21 CFR 177.1520(c) 1.1		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183/D
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	73		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	33.0	MPa	ISO 527-2
Flexural Modulus	1450	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	2.5	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Unannealed	88.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	°C	ISO 75-2/A
Vicat Softening Temperature	150	°C	ISO 306/A

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