

Moplen RP348R

Polypropylene Random Copolymer

LyondellBasell Industries

Message:

Moplen RP348R is a nucleated and antistatic additivated random copolymer for injection moulding that displays excellent transparency combined with good flowability.
The main applications of Moplen RP348R are housewares and caps & closures.
For regulatory information please refer to Moplen RP348R Product Stewardship Bulletin (PSB)

General Information			
Additive	Antistatic		
	Nucleating Agent		
Features	Antistatic		
	Good Flow		
	High Clarity		
	Nucleated		
	Random Copolymer		
Uses	Caps		
	Closures		
	Household Goods		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
--	25	g/10 min	ASTM D1238
230°C/2.16 kg	25	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	60.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1150	MPa	ISO 527-2
Tensile Strength			
Yield	29.0	MPa	ASTM D638
Yield	30.0	MPa	ISO 527-2
Tensile Elongation			
Yield	13	%	ASTM D638
Yield	14	%	ISO 527-2

Break	> 50	%	ISO 527-2
Flexural Modulus	1050	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C	3.0	kJ/m ²	
23°C	6.0	kJ/m ²	
Notched Izod Impact (23°C)	45	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	85.0	°C	ASTM D648
0.45 MPa, Unannealed	76.0	°C	ISO 75-2/B
Vicat Softening Temperature			
--	130	°C	ISO 306/A50
--	72.0	°C	ISO 306/B50
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	85		ASTM D2457
Haze (1000 µm)	9.0	%	ASTM D1003

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