

Moplen HP602N

Polypropylene Homopolymer

PolyMirae

Message:

Moplen HP602N is a homopolymer selected by customers for use in injection molding of housewares articles, toys, packaging, and closures. Moplen HP602N resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.

General Information			
UL YellowCard	E215205-229291		
Features	Food Contact Acceptable		
	Good Color Stability		
	Good Impact Resistance		
	Good Processing Stability		
	Good Stiffness		
	Good Toughness		
	Homopolymer		
	Low Warpage		
Uses	Closures		
	Household Goods		
	Packaging		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	Contact Manufacturer		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	104		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	34.3	MPa	ASTM D638
Yield, 23°C	34.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield	12	%	ASTM D638
Yield, 23°C	10	%	ISO 527-2/50

Flexural Modulus			
--	1570	MPa	ASTM D790
--	1550	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
0°C	35	kJ/m ²	
23°C	72	kJ/m ²	
Notched Izod Impact (23°C)	29	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	107	°C	ASTM D648
Vicat Softening Temperature	150	°C	ISO 306/A50

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

