

## LyondellBasell Moplen HP400H Polypropylene Homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Extrusion Grade

### Material Notes:

Description: Moplen HP400H is a homopolymer for extrusion applications. Moplen HP400H exhibits easy processability and a good stiffness/impact balance at ambient temperature. The main applications of Moplen HP400H are thermoformed tubs and containers, medium draw trays and blister packs, flowerpots and small extrusion blow molded bottles. Moplen HP400H is suitable for food contact.

Uses: Thermoformed containers, bottles  
Information provided by Basell.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Moplen-HP400H-Polypropylene-Homopolymer.php](http://www.lookpolymers.com/polymer_LyondellBasell-Moplen-HP400H-Polypropylene-Homopolymer.php)

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in <sup>3</sup>	ASTM D792 & ISO 1183
Water Absorption	0.010 %	0.010 %	24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.015 - 0.018 cm/cm	0.015 - 0.018 in/in	ASTM D955
Melt Flow	2.0 g/10 min	2.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	2.2 g/10 min	2.2 g/10 min	Condition L; ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	89	89	ASTM D 785
Ball Indentation Hardness	70.0 MPa	10200 psi	H 358/30; ISO 2039-1
Tensile Strength, Yield	34.0 MPa	4930 psi	ISO 527-1, -2
	34.6 MPa	5020 psi	
Elongation at Break	50 %	50 %	ISO 527-1, -2
Elongation at Yield	11 %	11 %	ASTM D 638 & ISO 527-1, -2
Tensile Modulus	1.40 GPa	203 ksi	ISO 527-1, -2
Flexural Modulus	1.37 GPa	198 ksi	ASTM D790
Izod Impact, Notched	0.443 J/cm	0.830 ft-lb/in	73°F; ASTM D256
Charpy Impact Unnotched	NB	NB	Type 1, Edgewise; ISO 179
	9.00 J/cm <sup>2</sup>		

Mechanical Properties	Metric	English	Comments
	@Temperature 0.000 Â°C	42.8 ft-lb/inÂ² @Temperature 32.0 Â°F	Type 1, Edgewise; ISO 179
Charpy Impact, Notched	0.400 J/cmÂ²	1.90 ft-lb/inÂ²	Type 1, Edgewise, Notch A; ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	100 Âµm/m-Â°C	55.6 Âµin/in-Â°F	ASTM D696
	@Temperature 100 Â°C	@Temperature 212 Â°F	
Specific Heat Capacity	1.70 J/g-Â°C	0.406 BTU/lb-Â°F	ASTM C351
Thermal Conductivity	0.202 W/m-K	1.40 BTU-in/hr-ftÂ²- Â°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	80.0 Â°C	176 Â°F	Unannealed; ISO 75B-1, -2
	85.0 Â°C	185 Â°F	Unannealed; ASTM D648
Vicat Softening Point	80.0 Â°C	176 Â°F	(B50 (50Â°C/h 50 N)); ISO 306
	150 Â°C	302 Â°F	(A50 (50Â°C/h 10 N)); ISO 306

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China