

LyondellBasell® HP400H

Moplen HP400H is a homopolymer for extrusion and compounding applications. Moplen HP400H exhibits easy processability and a good stiffness/impact balance at ambient temperature. It is typically used by customers in applications such as: thermoformed tubs, containers, medium draw trays and blister packs, flowerpots and small extrusion blow molded bottles.

Availability: Africa-Middle East; Europe

Application: Caps & Closures; Housewares; Opaque Containers

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ISO 1183-1
Melt Flow	2.00 g/10 min @Load 2.16 kg, Temperature 230 °C	2.00 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133-1

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	34.0 MPa	4930 psi	ISO 527-1, -2
Elongation at Break	>= 50.0 %	>= 50.0 %	ISO 527-1, -2
Elongation at Yield	11.0 %	11.0 %	ISO 527-1, -2
Tensile Modulus	1.40 GPa	203 ksi	ISO 527-1, -2
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	Type 1, Edgewise, Notch A; ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	Unannealed; ISO 75B-1, -2
Vicat Softening Point	150 °C	302 °F	A50; ISO 306