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Borouge® HG385MO

HG385MO is a polypropylene homopolymer intended for injection molding. This grade combines unique Borstar® reactor design with Borstar® nucleation technology to produce highly-crystalline polypropylene. This product is characterized by excellent flow properties combined with a narrow molecular weight distribution well suited for low distortion products. This grade contains anti-static and slip additives, which result in short cycle time, good demolding and low dust attraction. Products molded from this grade exhibit excellent dimension consistency combined with high stiffness.

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in³	ISO 1183
Linear Mold Shrinkage	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	
Melt Flow	25 g/10 min @Load 2.16 kg, Temperature 230 °C	25 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	98	98	ISO 2039-2
Tensile Strength, Yield	36.5 MPa	5290 psi	50mm/min; ISO 527-2
Elongation at Yield	8.0 %	8.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.75 GPa	254 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.350 J/cm² @Temperature 23.0 °C	1.67 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	115 °C	239 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 260 °C	428 - 500 °F	
Mold Temperature	10.0 - 30.0 °C	50.0 - 86.0 °F	
Hold Pressure	20.0 - 50.0 MPa	2900 - 7250 psi	
Injection Velocity	highest possible		