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BASF Ultraform® S2320 003 POM

Description: Easy flowing and rapidly freezing grade for injection molding difficult, thin-walled part.
Information provided by BASF

Physical Properties	Metric	English	Comments
Bulk Density	0.850 g/cc	0.0307 lb/in³	
Density	1.40 g/cc	0.0506 lb/in³	ISO 1183
Water Absorption	0.80 %	0.80 %	ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	ISO 62
Linear Mold Shrinkage, Flow	0.021 cm/cm	0.021 in/in	ISO 2577
Linear Mold Shrinkage, Transverse	0.021 cm/cm	0.021 in/in	ISO 2577
Melt Flow	15.4 g/10 min @Load 2.16 kg, Temperature 190 °C	15.4 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	145 MPa @Load 36.5 kg, Time 30.0 sec	21000 psi @Load 80.5 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength, Yield	65.0 MPa	9430 psi	50 mm/min; ISO 527-1/-2
Elongation at Break	28 %	28 %	50 mm/min, Nominal; ISO 527-1/-2
Elongation at Yield	9.0 %	9.0 %	50 mm/min; ISO 527-1/-2
Tensile Modulus	2.70 GPa	392 ksi	ISO 527-1/-2
Charpy Impact Unnotched	17.0 J/cm² @Temperature -30.0 °C	80.9 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eU
	18.0 J/cm² @Temperature 23.0 °C	85.7 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.500 J/cm² @Temperature -30.0 °C	2.38 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eA
	0.550 J/cm² @Temperature 23.0 °C	2.62 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	1300 MPa @Strain <=0.5 %	189000 psi @Strain <=0.5 %	ISO 899-1