

BASF Ultraform® S1320 003 POM

Description: Is a POM, free-flowing, rapidly solidifying grade for moldings difficult to produce by injection molding and having low wall thicknesses, higher stiffness and thermal stability.
Information provided by BASF

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C; 50% RH; ISO 62
Water Absorption at Saturation	0.80 %	0.80 %	ISO 62
Melt Flow	12.9 g/10 min @Load 2.16 kg, Temperature 190 °C	12.9 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133
Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	165 MPa @Load 36.5 kg, Time 30.0 sec	23900 psi @Load 80.5 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength, Yield	68.0 MPa	9860 psi	50 mm/min; ISO 527-2
Elongation at Break	25 %	25 %	ISO 527-2
Elongation at Yield	9.0 %	9.0 %	ISO 527-2
Modulus of Elasticity	3.00 GPa	435 ksi	ISO 527-2
Izod Impact, Notched (ISO)	5.00 kJ/m ² @Temperature -30.0 °C	2.38 ft-lb/in ² @Temperature -22.0 °F	ISO 180/A
	5.50 kJ/m ² @Temperature 23.0 °C	2.62 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	17.0 J/cm ² @Temperature -30.0 °C	80.9 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	17.0 J/cm ² @Temperature 23.0 °C	80.9 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.550 J/cm ² @Temperature -30.0 °C	2.62 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	0.550 J/cm ² @Temperature 23.0 °C	2.62 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	1450 MPa	210000 psi	ISO 899-1