

Technical Data Sheet

GAPEX® HPP40GR49HB BLACK

Polypropylene Homopolymer
Engineering Plastics



General		
Filler / Reinforcement	• Glass\Mica, 41% Filler by Weight	
Additive	• Heat Stabilizer	
Features	• Chemically Coupled	• Heat Stabilized
Appearance	• Black	
Forms	• Pellets	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.24	1.24 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.5 g/10 min	5.5 g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	3.0E-3 in/in	0.30 %	
Across Flow	7.0E-3 in/in	0.70 %	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	11900 psi	82.0 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	4.0 %	4.0 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	951000 psi	6560 MPa	
Tangent : 73°F (23°C)	1.09E+6 psi	7520 MPa	
Flexural Strength (73°F (23°C))	18400 psi	127 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.5 ft·lb/in	80 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	9.5 ft·lb/in	510 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	2.50 in·lb	0.282 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	320 °F	160 °C	
264 psi (1.8 MPa), Unannealed	295 °F	146 °C	

Additional Information			
Testing and measurements were performed at 73 +/-3°F and 50 +/-5% relative humidity unless otherwise noted.			

Notes

These are typical property values not to be construed as specification limits.