

# GAPEX® HPP40GR27HB BLACK

Polypropylene Homopolymer

Ferro Corporation

## Message:

GAPEX® HPP40GR27HB BLACK is a polypropylene homopolymer (PP Homopoly) material, which contains 40% glass \minerals. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. GAPEX® The main characteristics of HPP40GR27HB BLACK are: chemical coupling.

General Information			
Filler / Reinforcement	Glass \mineral, 40% filler by weight		
Features	Chemical coupling		
Appearance	Black		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.5	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.40	%	ASTM D955
Transverse flow	0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	53.1	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	3.5	%	ASTM D638
Flexural Modulus			ASTM D790
1% secant: 23°C	6140	MPa	ASTM D790
Tangent: 23°C	6830	MPa	ASTM D790
Flexural Strength (23°C)	105	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	69	J/m	ASTM D256
Unnotched Izod Impact (23°C)	320	J/m	ASTM D4812
Dart Drop Impact (23°C)	0.395	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	157	°C	ASTM D648
1.8 MPa, not annealed	143	°C	ASTM D648
Additional Information			

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

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