

GAPEX® HPP40GR22RD

Polypropylene Homopolymer

Ferro Corporation

Message:

GAPEX® HPP40GR22RD is a Polypropylene Homopolymer (PP Homopolymer) material filled with 40% glass\mica. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Important attributes of GAPEX® HPP40GR22RD are:

Chemically Coupled

Homopolymer

General Information			
Filler / Reinforcement	Glass\Mica,40% Filler by Weight		
Features	Chemically Coupled		
	Homopolymer		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.5	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.40	%	
Across Flow	1.1	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	63.4	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	5.0	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 23°C	6360	MPa	
Tangent : 23°C	6490	MPa	
Flexural Strength (23°C)	97.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	43	J/m	ASTM D256
Unnotched Izod Impact (23°C)	320	J/m	ASTM D4812
Gardner Impact (23°C)	0.395	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	160	°C	
1.8 MPa, Unannealed	152	°C	
Additional Information	Nominal Value	Unit	Test Method
Filler Content	40	%	ASTM D2584

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