GAPEX® RPP40EA35NA

Polypropylene

Ferro Corporation

Message:

GAPEX® RPP40EA35NA is a Polypropylene material filled with 40% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.
Important attributes of GAPEX® RPP40EA35NA are:
Chemically Coupled
Creep Resistant
Heat Resistant
High Strength
Homopolymer
Typical applications include:
Engineering/Industrial Parts
Housings

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Chemically Coupled Good Creep Resistance Good Thermal Stability High Strength Homopolymer Low Shrinkage		
Uses	Housings Pump Parts		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.22	g/cm^3	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	113		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	92.4	MPa	ASTM D638
Tensile Elongation (Break)	4.5	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength (Yield)	140	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	72	J/m	ASTM D256
Unnotched Izod Impact (23°C)	450	J/m	ASTM D256
Gardner Impact	0.339	J	ASTM D3029

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	163	°C	
1.8 MPa, Unannealed	154	°C	
Injection	**Nominal Value**	**Unit**	
Drying Temperature	71.1 to 82.2	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	221 to 238	°C	
Middle Temperature	227 to 243	°C	
Front Temperature	232 to 260	°C	
Nozzle Temperature	232 to 260	°C	
Processing (Melt) Temp	221 to 238	°C	
Mold Temperature	37.8 to 65.6	°C	
Injection Rate	Slow-Moderate		
Back Pressure	0.138 to 0.345	MPa	
Cushion	5.08 to 12.7	mm	

Recommended distributors for this material

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