Petrotene® PP A3 G40 HF CNZ0207 PH353

Polypropylene

Petropol Industry and Trade of Polymers LTDA

Message:

Polypropylene with 40% fiberglass, chemically coupled, ideal for injection molding, resistant to oil, grease and many solvents, has a high tensile strength and higher HDT, and excellent stability dimensional, and higher impact.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Chemically Coupled Good Dimensional Stability Grease Resistant High Impact Resistance High Tensile Strength Oil Resistant Solvent Resistant		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.22 to 1.24	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)	8.0 to 15	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.35 to 0.40	%	ASTM D955
Water Absorption (Equilibrium)	0.040 to 0.080	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	95.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	5400	MPa	ASTM D790
Flexural Strength	145	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	120	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	120	°C	ASTM D648
Continuous Use Temperature	100	°C	
Vicat Softening Temperature	140	°C	ASTM D1525 [1]
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	> 1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	42	kV/mm	ASTM D149
Dissipation Factor (1 kHz)	1.0E-3		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94

Injection	Nominal Value	Unit
Drying Temperature	95.0	°C
Drying Time	2.0	hr
Processing (Melt) Temp	190 to 240	°C
Mold Temperature	35.0 to 65.0	°C

NOTE	
1.	Rate A (50°C/h), Loading 2 (50 N)

Recommended distributors for this material

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