VYPET VNT 840

Polyethylene Terephthalate

Lavergne Group

Message:

Vypet VNT 840 is a 40% glass/mineral reinforced PET injection molding compound designed for electrical and structural applications, with High Dielectric Strength.
Features
High temperature performance
Excellent strength & high stiffness
Excellent dimensional stability
Typical Applications
Electric motors
Brackets
Connectors

General Information	
Filler / Reinforcement	Glass \mineral, 40% filler by weight
Features	Good dimensional stability Rigidity, high Good strength Heat resistance, high
Uses	Electrical/Electronic Applications Electrical components Connector

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.61	g/cm³	ISO 1183
Molding Shrinkage [1]			ASTM D955
Flow: 3.20mm	0.50	%	ASTM D955
Transverse flow: 3.20mm	1.0	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	109		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break, 23°C)	120	MPa	ISO 527-2/5
Flexural Modulus [2]	10500	MPa	ISO 178
Flexural Stress [3]	177	MPa	ISO 178
Compressive Strength [4]	126	MPa	ASTM D695
Shear Strength	49.0	MPa	ASTM D732
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	7.0	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**

Heat Deflection Temperature (1.8 MPa, Unannealed)	222	°C	ISO 75-2/A
Melting Temperature (DSC)	246	°C	ISO 3146
Linear thermal expansion coefficient			ASTM E831
Flow: 23 to 55°C	2.6E-5	cm/cm/°C	ASTM E831
Lateral: 23 to 55°C	3.1E-5	cm/cm/°C	ASTM E831
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.7E+16	ohms·cm	ASTM D257
Dielectric Strength [5] (23°C, 1.60 mm, in Oil)	28	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.80		ASTM D150
Dissipation Factor (1 kHz)	8.0E-3		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (3.20 mm)	HB		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	120	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	260 - 270	°C	
Middle Temperature	265 - 275	°C	
Front Temperature	270 - 295	°C	
Nozzle Temperature	275 - 300	°C	
Processing (Melt) Temp	275 - 300	°C	
Mold Temperature	75.0 - 120	°C	
Injection instructions			
Mold temperature (thick wall): 75 to 95°CMold temperature (thin wall): 95 to 120°C			
NOTE			
1.	3.2mm x 7.6mm x 12.6mm		
2.	2.0 mm/min		
3.	2.0 mm/min		
4.	1.3 mm/min		
5.	500 V/sec		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China


WECHAT