

VYPET VNT 340 HD

Polyethylene Terephthalate
Lavergne Group

Message:

Vypet VNT 340 HD 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

Applications:

- Electric motors
- Brackets
- Connectors

General Information			
Filler / Reinforcement	Glass\Mineral,40% Filler by Weight		
Features	Good Dimensional Stability		
	Good Stiffness		
	Good Strength		
Uses	Connectors		
	Electrical Parts		
	Electrical/Electronic Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.64	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 2.00 mm ¹	0.25	%	
Flow : 3.20 mm ²	0.32	%	
Across Flow : 2.00 mm ³	0.53	%	
Across Flow : 3.20 mm ⁴	0.79	%	
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	113		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	111	MPa	ISO 527-2/5
Flexural Modulus ⁵	10500	MPa	ISO 178
Flexural Stress ⁶	170	MPa	ISO 178
Compressive Strength ⁷	151	MPa	ASTM D695
Shear Strength	59.0	MPa	ASTM D732

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	6.7	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	224	°C	ISO 75-2/A
Melting Temperature	249	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow : 23 to 55°C	1.7E-5	cm/cm/°C	
Transverse : 23 to 55°C	8.7E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.1E+15	ohms·cm	ASTM D257
Dielectric Strength ⁸			ASTM D149
23°C, 1.60 mm, Oil	22	kV/mm	
23°C, 3.20 mm, Oil	16	kV/mm	
Dielectric Constant (1 kHz)	3.80		ASTM D150
Dissipation Factor (1 kHz)	0.011		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Burning Rate (1.00 mm)	47	mm/min	ISO 3795
Flame Rating (0.750 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	260 to 270	°C	
Middle Temperature	265 to 275	°C	
Front Temperature	270 to 295	°C	
Nozzle Temperature	275 to 300	°C	
Processing (Melt) Temp	275 to 300	°C	
Mold Temperature	95.0 to 120	°C	
NOTE			
1.	(2mmx60mmx60mm)		
2.	(3.2mmx7.6mmx12.6mm)		
3.	(2mmx60mmx60mm)		
4.	(3.2mmx7.6mmx12.6mm)		
5.	2.0 mm/min		
6.	2.0 mm/min		
7.	1.3 mm/min		
8.	500 V/sec		

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