

VYPET VNT 340SK

Polyethylene Terephthalate

Lavergne Group

Message:

Vypet VNT 340SK is a 40% glass/mineral reinforced PET injection molding compound especially designed for electrical applications where equal flow / cross dielectric properties are required.

Features:

High temperature performance

Excellent strength & high stiffness

Equal flow / cross dielectric strength

Applications:

Electric motors

Ignition systems

Connectors

Grills

General Information			
Filler / Reinforcement	Glass \mineral, 40% filler by weight		
Features	Good dimensional stability		
	Rigid, good		
	Good strength		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Connector		
Forms	Particle		
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: 2.00mm ¹	0.25	%	ASTM D955
Flow: 3.20mm ²	0.32	%	ASTM D955
Transverse flow: 2.00mm ³	0.53	%	ASTM D955
Transverse flow: 3.20mm ⁴	0.79	%	ASTM D955
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	58.5	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	5.7	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	208	°C	ISO 75-2/A
Melting Temperature	249	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 55°C	1.7E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	8.7E-5	cm/cm/°C	ISO 11359-2
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	ASTM D149
23°C, 3.20 mm, Oil	16	kV/mm	ASTM D149
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 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	260 - 270	°C	
Middle Temperature	265 - 280	°C	
Front Temperature	271 - 293	°C	
Nozzle Temperature	280 - 299	°C	
Processing (Melt) Temp	280 - 299	°C	
Mold Temperature	75.0 - 125	°C	
Injection instructions			
Mold thick wall temperature: 75-95°C (165-195°F)Mold thin wall temperature: 95-125°C (203-257°F)			
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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

