

VYPET VNT 615 FR

Polyethylene Terephthalate

Lavergne Group

Message:

Vypet VNT 615 FR is a 15% fiberglass reinforced flame retardant PET injection molding compound designed for electrical and structural applications

Features

Flame retardant

UL yellow card file E216152

Excellent strength and stiffness

Excellent dimensional stability

Typical Applications

Electrical parts

Appliances

Electronic Applications

General Information			
UL YellowCard	E216152-100247155		
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Dimensional Stability		
	High Stiffness		
	High Strength		
Uses	Appliances		
	Electrical Parts		
	Electrical/Electronic Applications		
	Structural Parts		
UL File Number	E216152		
Appearance	Black		
	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm ³	ASTM D792
Molding Shrinkage			ISO 294-4
Across Flow : 2.00 mm	0.90	%	
Flow : 2.00 mm	0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	105	MPa	ISO 527-2/5
Flexural Modulus ¹	5900	MPa	ISO 178
Flexural Stress ²	150	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	6.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+18	ohms·cm	ASTM D257
Dielectric Strength	37	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.30		ASTM D150
Comparative Tracking Index (CTI)	PLC 3		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.850 mm	V-0		
	V-0		
1.50 mm	5VA		
	V-0		
3.00 mm	5VA		
Glow Wire Flammability Index (1.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.00 mm)	900	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	260 to 270	°C	
Middle Temperature	265 to 275	°C	
Front Temperature	270 to 290	°C	
Nozzle Temperature	275 to 295	°C	
Processing (Melt) Temp	275 to 295	°C	
Mold Temperature	95.0 to 120	°C	
Injection Pressure	55.0 to 85.0	MPa	
Injection Rate	Fast		
Screw Speed	50 to 75	rpm	
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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