

Techsil PU 2600FS/WT

Polyurethane

Techsil Limited

Message:

PU2600FS is a low viscosity, fast curing polyurethane resin system exhibiting high electrical strength, dimensional stability, and low shrinkage. The system has been designed for encapsulating, potting, moulding and casting where high production rates are required. The combination of properties and the ease of use of the material will lend itself to a wide range of applications. The standard color is Off-White but other colors are available on request.

- Features:
- Fast Curing
 - High electrical insulating characteristics
 - Non-toxic
 - Flame retardant to UL94-V0
 - Low viscosity
 - Convenient mix ratio

General Information			
Features	Electrically Insulating		
	Fast Cure		
	Flame Retardant		
	Good Dimensional Stability		
	Good Electrical Properties		
	Low Shrinkage		
	Low Toxicity		
	Low Viscosity		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Off-White		
Forms	Paste		
Processing Method	Casting		
	Encapsulating		
	Potting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.24	g/cm ³	
-- ²	1.48	g/cm ³	
-- ³	1.56	g/cm ³	
Water Absorption			
23°C, 24 hr	0.12	%	
Saturation, 23°C ⁴	0.37	%	
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore D)	80	ASTM D2240	
Mechanical	Nominal Value	Unit	
Tensile Strength	40.0	MPa	
Compressive Strength	110	MPa	
Thermal	Nominal Value	Unit	
CLTE - Flow	6.0E-5 to 8.0E-5	cm/cm/°C	
Thermal Conductivity	0.80	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.6E+11	ohms	ASTM D257
Volume Resistivity	1.6E+11	ohms · cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
100 Hz	4.20		
1 kHz	3.90		
10 kHz	3.80		
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 1.0, Mix Ratio by Volume: 1.0		
Resin	Mix Ratio by Weight: 3.8, Mix Ratio by Volume: 3.0		
Thermoset Mix Viscosity			
25°C ⁵	3000	cP	
25°C ⁶	200	cP	
25°C ⁷	8000	cP	
Gel Time (25°C) ⁸	20.0 to 30.0	min	
Cure Schedule			
20°C ⁹	16.0	hr	
60°C ¹⁰	4.0	hr	
80°C ¹¹	2.0	hr	
Operating Temperature	-40 to 140	°C	
Short Term Exposure Limit	180	°C	
Usable Life (25°C) ¹²	10.0 to 15.0	min	
NOTE			
1.	Hardener		
2.	Mixed		
3.	Resin		
4.	168 hrs		
5.	Mixed		
6.	Hardener		
7.	Resin		
8.	150g mass		

9.	1 week to full cure
10.	8 hours to full cure
11.	4 hours to full cure
12.	150g mass

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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

