

Techsil® PU20940

Polyurethane

Techsil Limited

Message:

PU20940 is a high performance, low viscosity polyurethane resin system offering excellent insulation characteristics and water-resistant properties. PU20940 has been developed for the potting of delicate electronic components requiring electrical insulation and environmental protection. The material cures at room temperature offering a long work life to give a soft flexible product. The standard colour is natural but other colours are available on request subject to volume.

- Features:
- Non-toxic
 - Low viscosity
 - Excellent electrical protection
 - Long pot life

General Information		
Features	Low viscosity	
	Moisture resistance	
	Insulation	
	Good flexibility	
	Soft	
	Room temperature vulcanization	
	Non-toxic	
Uses	Electrical/Electronic Applications	
RoHS Compliance	RoHS compliance	
Appearance	Available colors	
	Natural color	
Forms	Liquid	
Processing Method	potting	
Thermal	Nominal Value	Unit
CLTE - Flow	7.5E-5 - 1.3E-4	cm/cm/°C
Thermal Conductivity	0.30	W/m/K
Electrical	Nominal Value	Unit
Surface Resistivity	1.4E+15 - 1.6E+15	ohms
Additional Information	Nominal Value	Unit
Operating Temperature	-55 - 125	°C
Uncured Properties	Nominal Value	Unit
Color		
-- 1	Brown	
-- 2	Natural Color	
Mix Ratio by Weight (PBW)		
Resin	3.2	

Hardener	1.0	
Density		
-- ³	0.990	g/cm ³
-- ⁴	1.00	g/cm ³
-- ⁵	1.02	g/cm ³
Viscosity		
25°C ⁶	0.10 - 0.15	Pa·s
25°C ⁷	0.45	Pa·s
25°C ⁸	0.50 - 0.70	Pa·s
Curing Time	24	hr
Gel Time	1.4E+3	min
Pot Life	720	min
Cured Properties	Nominal Value	Unit
Water Absorption		
23°C ⁹	0.60	%
100°C ¹⁰	1.4	%
Shore Hardness (Shore A)	40	
Tensile Strength	10.0	MPa
Tensile Elongation at Break	320	%
Compression Strength	< 10.0	MPa
Electric strength	25	kV/mm
Volume Resistivity	1.2E+16 - 1.4E+16	ohms·cm
NOTE		
1.	Hardener	
2.	Resin	
3.	Mixed	
4.	Resin	
5.	Hardener	
6.	Hardener	
7.	Mixed	
8.	Resin	
9.	7 days	
10.	30 minutes	

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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

