

Techsil VT2420LV

Polyurethane

Techsil Limited

Message:

TECHSIL VT2420LV is a two-part, low viscosity room temperature curing polyurethane resin designed for the manufacture of badges and decals. TECHSIL VT2420LV has excellent outdoor weathering properties, due to the incorporation of both UV resistant base materials and the addition of UV stabilisers and antioxidants.

- Features:
- Excellent long term UV stability
 - Scratch and mark resistant
 - Non-toxic
 - Meets requirements of WEEE & RoHS
- Easy to mix and process

General Information		
Additive	Antioxidant	
	UV Stabilizer	
Features	Antioxidant	
	Good UV Resistance	
	Good Weather Resistance	
	Low Viscosity	
	Non-Toxic	
	Scratch Resistant	
Uses	Decorative Parts	
Agency Ratings	EC 1907/2006 (REACH)	
RoHS Compliance	RoHS Compliant	
Appearance	Clear/Transparent	
Forms	Paste	
Physical	Nominal Value	Unit
Specific Gravity		
-- 1	1.05	g/cm ³
-- 2	1.11	g/cm ³
-- 3	1.16	g/cm ³
Water Absorption ⁴ (Saturation, 25°C)	1.2	%
Hardness	Nominal Value	Unit
Durometer Hardness (Shore A)	70	
Mechanical	Nominal Value	Unit
Tensile Strength	15.0	MPa
Tensile Elongation (Break)	100	%
Compressive Strength	< 10.0	MPa
Thermal	Nominal Value	Unit

CLTE - Flow	1.0E-4 to 1.5E-4	cm/cm/°C	
Thermal Conductivity	< 0.25	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.4E+11	ohms	ASTM D257
Volume Resistivity	< 1.3E+11	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Optical	Nominal Value		
Refractive Index	1.470 to 1.480		
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 1.0, Mix Ratio by Volume: 1.0		
Resin	Mix Ratio by Weight: 0.91, Mix Ratio by Volume: 1.0		
Thermoset Mix Viscosity			
25°C ⁵	700	cP	
25°C ⁶	800	cP	
25°C ⁷	600	cP	
Gel Time			
20°C ⁸	12.0	min	
20°C ⁹	30.0	min	
Tack Free Time			
20°C ¹⁰	2.0	hr	
20°C ¹¹	0.3	hr	
Cure Schedule			
20°C ¹²	6.0	hr	
40°C ¹³	2.0	hr	
60°C ¹⁴	1.0	hr	
Operating Temperature	-55 to 120	°C	
Usable Life			
20°C ¹⁵	15.0	min	
20°C ¹⁶	6.0	min	
NOTE			
1.	Resin		
2.	Mixed		
3.	Hardener		
4.	30 days		
5.	Mixed		
6.	Hardener		
7.	Resin		
8.	Thick film >5mm		
9.	Thin film <2mm		
10.	Thin film <2mm		
11.	Thick film >5mm		

12.	Full Cure 24 hrs
13.	Full Cure 4 hrs
14.	Full Cure 2 hrs
15.	Thin film <2mm
16.	Thick film >5mm

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