

# Techsil 1382 CLEAR

Silicone

Techsil Limited

## Message:

Techsil 1382 is a fast cure 1-part RTV silicone sealant specially formulated for applications requiring a combination of good adhesion, excellent physical and non-corrosive properties. The Oxime based cure system produces excellent physical properties and good adhesion particularly to plastics and many other substrates. Although not totally neutral the cured sealant is very low corrosive in nature.

### Key Features:

- Thixotropic Paste
- Low corrosion
- Primerless adhesion to most plastics
- Low odour

General Information			
Features	Fast Cure		
	Good Adhesion		
	Low to No Odor		
	Non-Corrosive		
	Thixotropic		
Uses	Sealants		
Appearance	Translucent		
Forms	Paste		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm <sup>3</sup>	BS 903
Molding Shrinkage - Flow	< 0.80	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	33		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup> (100% Strain)	0.800	MPa	BS 903
Tensile Strength <sup>2</sup> (Yield)	2.15	MPa	BS 903
Tensile Elongation <sup>3</sup> (Break)	300	%	BS 903
Tear Strength <sup>4</sup>	4.80	kN/m	BS 903
Thermal	Nominal Value	Unit	
CLTE			
Flow	3.0E-4	cm/cm/°C	
Transverse	8.9E-4	cm/cm/°C	
Thermal Conductivity	0.20	W/m/K	
Service Temperature <sup>5</sup>	-50 to 220	°C	
Tack Free Time <sup>6</sup> (23°C)	5.0	min	
Cure Time <sup>7</sup> (23°C, 3.00 mm)	12.0	hr	
Extrusion Rate	390	g/min	

Young's Modulus <sup>8</sup>	0.600	MPa	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	8.7E+15	ohms·cm	ASTM D257
Dielectric Constant (1 MHz)	3.00		ASTM D150
Dissipation Factor (1 MHz)	2.5E-3		ASTM D150

NOTE			
1.	after 7 days cure at 23+/-2°C and 65% relative humidity		
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3.	after 7 days cure at 23+/-2°C and 65% relative humidity		
4.	after 7 days cure at 23+/-2°C and 65% relative humidity		
5.	AFS 1540B		
6.	65%RH		
7.	65%RH		
8.	after 7 days cure at 23+/-2°C and 65% relative humidity		

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