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EMERGENCY PHONE 1-800-255-3924 TECHNICAL DATA SHEETS FLEX 1100 SILICONE

Description:

FLEX 1100 is a multi-purpose silicone for use in numerous bonding and sealing applications.

Typical Applications:

Designed primarily for flange sealing with good oil resistance and to withstand high joint-movement requirements. For example, stamped sheet metal covers (timing covers and oil sumps).

PROPERTIES OF UNCURED MATERIAL Typical

	Value	Range
Chemical Type	Oxime Silicone	-
	Rubber	
Appearance	Paste	
Specific Gravity @ 20°C	1.34	1.30 to 1.37
Viscosity @ 25°C	Thixotropic Paste	
Extrusion Rate gm/min:		
(3mm nozzle, 6 bar, 25°C)	35	20 to 50
Flash Point (TCC), °C	>93	

TYPICAL CURING PERFORMANCE Tack Free Time

The surface of this adhesive becomes dry to touch on exposure to atmospheric moisture in 7 to 24 minutes at $23\pm2^{\circ}C$, $50\pm5\%$ RH.

Electrical Properties

		Constant	Loss
Dielectric constant & loss, A	ASTM D150,		
	@1 kHz	5.05	0.048
	@ 100kHz	4.29	0.042
	@ 1MHz	4.13	0.023
	@ 10MHz	4.12	0.013
Volume resistivity, ASTM D	0257, Ω.cm		6.70 x 1013
Surface resistivity, ASTM D	0257, Ω		4.35 x 1015
Physical Properties			
Hardness, Shore A, ASTM	D2240		35
Elongation at break, %, AS	TM D412		400 minimum
Tensile strength, N/mm2,AS	STM D412		1.4 minimum
PERFORMANCE OF C		NL.	
(After 21 days @ 23±2°C,	50±5% RH at 0.	5mm gap)	
Isopropyl Alcohol wiped		5-1-7	
			Typical
		Value	Range

	value	Range
Shear Strength, ASTM D1002, DIN 53283		-
Mild steel, N/mm ₂	1.2	1.0 to 1.4
(psi)	(150)	(150 to 200)
Äluminum (T2024), N/mm ₂	1.0	0.7 to 1.3
(psi)	(150)	(100 to 190)
Äluminum (Alclad), N/mm ₂	1.3	1.0 to 1.5
(psi)	(180)	(150 to 220)
Zinc Dichromate, N/mm ₂	1.3	1.0 to 1.5
(psi)	(180)	(150 to 220)

Storage

Product shall be ideally stored in a cool, dry location in unopened containers at a temperature between 8°C to 28°C (46°F to 82°F) unless otherwise labeled. Optimal storage is at the lower half of this temperature range. To prevent contamination of unused product, do not return any material to its original container.

Engineering Excellence

For technical information and support call **1-800-552-0299** or visit our website at

