

Techsil IS803

Silicone

Techsil Limited

Message:

TECHSIL IS803 is a ready to use, one part room temperature vulcanising (RTV) elastomer, which cures on exposure to moist air to give a permanently elastic rubber. TECHSIL IS803 has excellent temperature resistance in its cured state.
It is recommended for industrial applications where a high modulus sealant with good adhesive properties is required.

Key Features

- Good Electrical Insulation.
- Resistance to ageing, weathering, ozone and corona.
- Resistance to oxidation and many oils, chemicals and solvents.
- Excellent bonding to a wide range of substrates.
- Flexibility from -60°C to +300°C.

General Information			
Features	Bondability		
	Electrically Insulating		
	Good Adhesion		
	Good Chemical Resistance		
	Good Flexibility		
	Good Weather Resistance		
	High Heat Resistance		
	Oil Resistant		
	Oxidation Resistant		
	Ozone Resistant		
	Solvent Resistant		
	Thixotropic		
Uses	Industrial Applications		
	Sealants		
Appearance	Black		
Forms	Paste		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	BS 903
Molding Shrinkage - Flow	< 0.80	%	
Hardness	Nominal Value	Unit	Test Method
IRHD Hardness	38		BS 903
Films	Nominal Value	Unit	Test Method
Peel Strength	5.3	kN/m	
Service Temperature ¹	-60 to 300	°C	
Tack Free Time ² (23°C)	4.0	min	
Cure Time ³ (23°C, 3.00 mm)	7.0	hr	

Extrusion Rate	270	g/min	
Young's Modulus ⁴	0.700	MPa	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ⁵ (100% Strain)	0.940	MPa	BS 903
Tensile Strength ⁶ (Yield)	2.30	MPa	BS 903
Tensile Elongation ⁷ (Break)	290	%	BS 903
Tear Strength ⁸	5.50	kN/m	BS 903
Thermal	Nominal Value	Unit	
CLTE			
Flow	3.1E-4	cm/cm/°C	
Transverse	9.4E-4	cm/cm/°C	
Thermal Conductivity	0.20	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.6E+15	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	18	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.00		ASTM D150
Dissipation Factor (1 MHz)	2.5E-3		ASTM D150
NOTE			
1.	AFS 1540B		
2.	65%RH		
3.	65%RH		
4.	after 7 days cure at 23+/-2°C and 65% relative humidity		
5.	after 7 days cure at 23+/-2°C and 65% relative humidity		
6.	after 7 days cure at 23+/-2°C and 65% relative humidity		
7.	after 7 days cure at 23+/-2°C and 65% relative humidity		
8.	after 7 days cure at 23+/-2°C and 65% relative humidity		

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