Chesterton 860 Moldable Polymer Gasketing

Category : Polymer

Material Notes:

Description: Chesterton® 860 Moldable Polymer Gasketing is a solid flexible gasketing material which fills in surface irregularities, stop leaks and never sticks to surfaces after curing. It is the one product to use to handle almost every gasketing application. MPG is easily formed into simple or complex shapes eliminating the necessity to inventory precut gaskets or sheets of gasketing. Waste, often 50% with conventional gasket sheeting material, is eliminated with this unique polymeric material. Using MPG, gaskets as thin as 0.13 mm (5 mil) can be formed. This fines the best fit between flanges and provides far superior pressure and chemical resistance. Because it forms a very quick seal. 860 MPG will hold up to 1 kg/cm2 (15 psi) as soon as equipment is assembled and up to 7 kg/cm2 (100 psi) in minutes. It can be used in applications ranging in temperature from -51°C to 260°C (-60°F to 500°F). Disassembly of equipment is always easy when sealed with a gasket made of 860 MPG. It will never bond mating surfaces together nor stick to the surface to which it is applied. After disassembly, just peel the gasket off. No scraping is every necessary. Cured 860 MPG conforms to paragraphs 175.300 and 177.2600 of 21 CFR of FDA (United States Food & Drug Administration) and meets NSF requirements for incidental food contact.Features: Never sticks to surfacesSaves Labor - no more gasket cuttingRemains elastic - no agingForm ultra-thin gasketFills gaps up to 6 mm (1/4 inch) deepNSF P1 - Registration number 134017 and 134018Applications: Solid gap filler and gasket replacement anywhere a tight seal is needed. Apply to flange surfaces and fittings including thread fittings, hose clamps and O-ring fittings. Fills in voids, scratches, gouges and distortions p to 6 mm (1/4 inch) deep.Information provided by Chesterton

Order this product through the following link:
http://www.lookpolymers.com/polymer_Chesterton-860-Moldable-Polymer-Gasketing.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	
Tensile Strength at Break	2.48 MPa	360 psi	
Elongation at Yield	180 %	180 %	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	260 °C	500 °F	continuous
	320 °C	608 °F	intermittent
Minimum Service Temperature, Air	-51.0 °C	-59.8 °F	continuous
Shrinkage	0.40 - 0.60 %	0.40 - 0.60 %	Linear

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+15 ohm-cm	2.00e+15 ohm-cm	
Dielectric Constant	4.0 @Frequency 1000 Hz	4.0 @Frequency 1000 Hz	

Electrical Properties	Metric	English	Comments
Dielectric Strength	19.7 kV/mm	500 kV/in	
Dissipation Factor	0.027 @Frequency 1000 Hz	0.027 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	180 - 240 min @Temperature 25.0 °C	3.00 - 4.00 hour @Temperature 77.0 °F	Gel time
	1440 min @Temperature 25.0 °C	24.0 hour @Temperature 77.0 °F	Full Cure

Descriptive Properties	Value	Comments
Chemical Resistance	Acetone	Resistant
	Benzene	Fair
	Ethyl Alohol	Resistant
	Gasoline	Poor
	Hydrochloric Acid, 36%	Resistant
	Mineral Oil	Resistant
	Mineral Oil @ 121°C (250°F)	Fair
	Nitric Acid, 10%	Resistant
	Nitric Acid, 70%	Fair
	Perchloroethylene	Resistant
	Phosphoric Acid, 30%	Resistant
	Potassium Hydroxide-Concentrated	Fair, 149°C (300°F)
	Sodium Hydroxide, 15%	Resistant
	Steam to 7 kg/cm^2 (100 psi)	Resistant, 170°C (338°F)
	Sulfuric Acid, 10%	Resistant
	Sulfuric Acid, 95%	Poor
	Toluene	Fair
	Xylene	Fair
Coverage	3289 linear cm	per 400 gm, 3 mm bead

Descriptive Properties	Value	Comments
	822 linear cm	per 400 gm, 6 mm bead
Hydraulic Pressure	<3000 psi	
Steam Pressure	100 psi	@ 170°C (388°F)

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