

3M PN8017 Marine Grade Silicone Sealant

Category : Polymer , Thermoset , Silicone , Silicone, RTV, Adhesive/Sealant Grade

Material Notes:

A mildew resistant, non-sagging, moisture curing silicone rubber sealant for above the waterline applications which remains flexible with excellent resistance to the marine environment. Adheres to bare and painted metal, glass, fiberglass, non-oily woods and many plastics and abraded rubber. Features: Mildew resistant Flexible polymer One-part cure Excellent weathering resistance High temperature resistant Non-shrinking Non-sagging formula Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-PN8017-Marine-Grade-Silicone-Sealant.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	50% RH
Solids Content	100 %	100 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	220 MPa	31900 psi	50% RH
Elongation at Break	350 %	350 %	50% RH
Shear Strength	0.0827 MPa	12.0 psi	Overlap, Acrylic, 50% RH
	0.186 MPa	27.0 psi	Overlap, Polycarbonate, 50% RH
	0.221 MPa	32.0 psi	Overlap, Primed Teak, 50% RH
	0.338 MPa	49.0 psi	Overlap, Mahogany, 50% RH
	0.393 MPa	57.0 psi	Overlap, Fir, 50% RH
	0.400 MPa	58.0 psi	Overlap, Maple, 50% RH
	0.414 MPa	60.0 psi	Overlap, Stainless Steel, 50% RH
	0.441 MPa	64.0 psi	Overlap, Glass, 50% RH
	0.476 MPa	69.0 psi	Overlap, Pine, 50% RH
	0.503 MPa	73.0 psi	Overlap, Oak, 50% RH
	0.503 MPa	73.0 psi	Overlap, Aluminum, 50% RH
	0.634 MPa	92.0 psi	Overlap, ABS, 50% RH
	0.634 MPa	92.0 psi	Overlap, Fiberglass, 50% RH
0.696 MPa	101 psi	Overlap, Gelcoat, 50% RH	

Peel Strength Mechanical Properties	1.09 kN/m Metric	6.20 pli English	180° Mahogany, 50% RH Comments
	1.24 kN/m	7.10 pli	180°, Pine, 50% RH
	1.33 kN/m	7.60 pli	180°, Oak, 50% RH
	1.47 kN/m	8.40 pli	180°, Aluminum, 50% RH
	1.88 kN/m	10.7 pli	180°, Fiberglass, 50% RH
	2.02 kN/m	11.5 pli	180°, Gelcoat, 50% RH

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	90.0 °C	194 °F	
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	

Processing Properties	Metric	English	Comments
Cure Time	5.00 - 10.0 min	0.0833 - 0.167 hour	Tack Free, 50% RH
	1440 min	24.0 hour	Full Cure, 50% RH, 1/8" depth
Shelf Life	36.0 Month @Temperature 15.0 - 27.0 °C	36.0 Month @Temperature 59.0 - 80.6 °F	

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