

3M 4000 UV 6580 Marine Adhesive/Sealant Fast Cure

Category : Polymer , Adhesive

Material Notes:

3M™ Marine Adhesive/Sealant 4000 UV is a one-part adhesive sealant that cures to form a firm, rubbery waterproof seal. Its flexibility allows for the dissipation of stress caused by shock, vibration, swelling or shrinking. Designed for marine applications above and below the waterline. Its superior UV resistance properties makes this an ideal cosmetic adhesive sealant. Features: Superior UV resistance. Non-corrosive. Exceptional sealing properties. Non-cracking. < 1% VOC's Caulkable at low temperatures (>40°F [4°C]). Low odor. Fast curing. Non-shrinking. Paintable (test for suitability). Non-sagging. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-4000-UV-6580-Marine-AdhesiveSealant-Fast-Cure.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	38 - 39	38 - 39	
Tensile Strength at Break	1.74 MPa	252 psi	50% RH
	2.06 MPa	299 psi	G-26, B, BH; ASTM D412
	@Time 3.60e+6 sec	@Time 1000 hour	
	2.11 MPa	306 psi	G-26, B, BH; ASTM D412
	@Time 1.80e+6 sec	@Time 500 hour	
Elongation at Break	790 %	790 %	50% RH
	723 %	723 %	G-26, B, BH; ASTM D412
	@Time 3.60e+6 sec	@Time 1000 hour	
	804 %	804 %	G-26, B, BH; ASTM D412
	@Time 1.80e+6 sec	@Time 500 hour	
Shear Strength	1.20 MPa	174 psi	Overlap, Teak, 50% RH
	1.35 MPa	196 psi	Overlap, Teak (primed), 50% RH
	1.56 MPa	226 psi	Overlap, Fir, 50% RH
	1.73 MPa	251 psi	Overlap, Fiberglass, 50% RH
	1.92 MPa	279 psi	Overlap, ABS, 50% RH
	2.27 MPa	329 psi	Overlap, Aluminum, 50% RH

Mechanical Properties	2.92 MPa Metric	424 psi English	Overlap, Gelcoat, 50% RH Comments
	0.931 MPa	135 psi	Overlap, Nylon, 50% RH, Salt Water Immersion
	@Time 1.80e+6 sec	@Time 500 hour	
	1.96 MPa	284 psi	Overlap, Fiberglass, 50% RH, Salt Water Immersion
	@Time 1.80e+6 sec	@Time 500 hour	
	2.48 MPa	359 psi	Overlap, Gelcoat, 50% RH, Salt Water Immersion
	@Time 1.80e+6 sec	@Time 500 hour	
	2.63 MPa	381 psi	Overlap, Aluminum, 50% RH, Salt Water Immersion
	@Time 1.80e+6 sec	@Time 500 hour	
	3.28 MPa	475 psi	Overlap, Copper, 50% RH, Salt Water Immersion
	@Time 1.80e+6 sec	@Time 500 hour	
	3.74 MPa	542 psi	Overlap, Bronz, 50% RH, Salt Water Immersion
	@Time 1.80e+6 sec	@Time 500 hour	
	4.65 MPa	675 psi	Overlap, Stainless Steel, 50% RH, Salt Water Immersion
	@Time 1.80e+6 sec	@Time 500 hour	
Peel Strength	0.929 kN/m	5.30 pli	180°, Aluminum, 50% RH
	1.40 kN/m	8.00 pli	180°, Teak (primed), 50% RH
	1.44 kN/m	8.20 pli	180°, Fiberglass, 50% RH
	1.53 kN/m	8.70 pli	180°, Teak, 50% RH
	1.54 kN/m	8.80 pli	180°, Gelcoat, 50% RH
	1.65 kN/m	9.40 pli	180°, Mahogany, 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	22.0 min	0.367 hour	Tack-Free, 50% RH
	1440 min	24.0 hour	Full Cure, 50% RH
Shelf Life	12.0 Month	12.0 Month	in the original, unopened container

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