

3M 5200 Marine Adhesive/Sealant

Category : Polymer , Adhesive

Material Notes:

3M™ Marine Adhesive/Sealant 5200 is a one-part polyurethane that chemically reacts with moisture to deliver strong, flexible bonds. It has excellent adhesion to wood, gelcoat and fiberglass. It forms a watertight, weather-resistant seal on joints and boat hardware, above and below the waterline. In addition, its flexibility allows for dissipation of stress caused by shock, vibration, swelling or shrinking. Features: Tough/flexible polyurethane polymer Non-shrinking One-part moisture cure Long working time. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-5200-Marine-AdhesiveSealant.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	
Solids Content	97 %	97 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	68	68	cured
Tensile Strength at Break	4.37 MPa	634 psi	Salt Water
	4.37 MPa @Time 4.493e+6 sec	634 psi @Time 1248 hour	Fresh Water
Elongation at Break	4.86 MPa	705 psi	50% RH
	4.86 MPa @Time 4.493e+6 sec	705 psi @Time 1248 hour	50% RH
Shear Strength	802 %	802 %	Salt Water
	762 % @Time 4.493e+6 sec	762 % @Time 1248 hour	50% RH
	805 % @Time 4.493e+6 sec	805 % @Time 1248 hour	Fresh Water
Shear Strength	0.331 MPa	48.0 psi	Overlap, Polyethylene, 50% RH
	0.379 MPa	55.0 psi	Overlap, Polypropylene, 50% RH
	0.738 MPa	107 psi	Overlap, Lead, 50% RH
	1.21 MPa	175 psi	Overlap, Nylon, 50% RH
	1.37 MPa	198 psi	Overlap, Copper, 50% RH

Mechanical Properties	1.50 MPa Metric	217 psi English	Overlap, Acrylic, 50% RH Comments
	1.59 MPa	231 psi	Overlap, ABS, 50% RH
	1.74 MPa	252 psi	Overlap, Bronz, 50% RH
	2.43 MPa	352 psi	Overlap, Stainless Steel, 50% RH
	2.50 MPa	362 psi	Overlap, Fiberglass, 50% RH
	2.63 MPa	381 psi	Overlap, Polycarbonate, 50% RH
	2.71 MPa	393 psi	Overlap, Aluminum, 50% RH
	3.27 MPa	474 psi	Overlap, Brass, 50% RH
	3.34 MPa	484 psi	Overlap, Zinc (Galvanized), 50% RH
	3.46 MPa	502 psi	Overlap, Teak, 50% RH
	3.58 MPa	519 psi	Overlap, Gelcoat, 50% RH
	3.71 MPa	538 psi	Overlap, Steel, 50% RH
	3.79 MPa	549 psi	Overlap, Oak, 50% RH
	3.89 MPa	564 psi	Overlap, Mahogany, 50% RH
	4.52 MPa	656 psi	Overlap, Maple, 50% RH
	4.69 MPa	680 psi	Overlap, Pine, 50% RH
	4.83 MPa	700 psi	Overlap, Fir, 50% RH

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	88.0 °C	190 °F	
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	

Processing Properties	Metric	English	Comments
Cure Time	240 min	4.00 hour	Open Time, 90% RH
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	1800 min	30.0 hour	Open Time, 50% RH
	@Temperature 21.0 °C	@Temperature 69.8 °F	
	7200 min	120 hour	Full Cure, 50% RH
	@Temperature 21.0 °C	@Temperature 69.8 °F	
	24.0 Month	24.0 Month	

Processing Properties	Metric	English	Comments
	@ Temperature 16.0 - 26.0 °C	@ Temperature 60.8 - 78.8 °F	

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