

3M 5200 Marine Adhesive/Sealant Fast Cure

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Adhesive

Material Notes:

A fast curing, one-part polyurethane that chemically reacts with moisture to deliver strong, flexible bonds with excellent adhesion to wood and fiberglass. Forms watertight, weather-resistant seals 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 Non-sagging formula Fast cure formula Information provided by 3M

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	
Solids Content	97 %	97 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	cured
Tensile Strength at Break	6.89 MPa	999 psi	50% RH
Elongation at Break	874 %	874 %	50% RH
Shear Strength	0.455 MPa	66.0 psi	Overlap, Polypropylene, 50% RH
	0.965 MPa	140 psi	Overlap, Nylon, 50% RH
	1.03 MPa	149 psi	Overlap, Acrylic, 50% RH
	1.10 MPa	160 psi	Overlap, Lead, 50% RH
	1.21 MPa	176 psi	Overlap, Bronz, 50% RH
	1.25 MPa	182 psi	Overlap, Copper, 50% RH
	1.27 MPa	184 psi	Overlap, Brass, 50% RH
	1.36 MPa	197 psi	Overlap, Stainless Steel, 50% RH
	1.40 MPa	203 psi	Overlap, Aluminum, 50% RH
	1.81 MPa	262 psi	Overlap, ABS, 50% RH
1.85 MPa	269 psi	Overlap, Zinc (Galvanized), 50% RH	
1.85 MPa	269 psi	Overlap, Fiberglass, 50% RH	
2.18 MPa	316 psi	Overlap, Steel, 50% RH	

Mechanical Properties	2.45 MPa Metric	355 psi English	Overlap, Teak, 50% RH Comments
	2.81 MPa	407 psi	Overlap, Mahogany, 50% RH
	2.82 MPa	409 psi	Overlap, Polycarbonate, 50% RH
	3.57 MPa	518 psi	Overlap, Oak, 50% RH
	3.74 MPa	543 psi	Overlap, Pine, 50% RH
	4.12 MPa	597 psi	Overlap, Maple, 50% RH
	4.14 MPa	600 psi	Overlap, Fir, 50% RH
	4.14 MPa	600 psi	Overlap, Gelcoat, 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	15.0 min	0.250 hour	Open Time, 90% RH
	60.0 min	1.00 hour	Open Time, 50% RH
	1440 min	24.0 hour	Full Cure, 50% RH, 1/8" depth
Shelf Life	24.0 Month	24.0 Month	
	@Temperature 16.0 - 26.0 °C	@Temperature 60.8 - 78.8 °F	

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