

3M 5010 Polyurethane Multi-Purpose Adhesive

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

Material Notes:

3M™ Polyurethane Multi-Purpose Adhesive 5010 is a one component, fast curing adhesive which forms a rigid permanent bond. 3M 5010 bonds to a wide variety of materials including wood, foam panels, fiberglass, and wood. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-5010-Polyurethane-Multi-Purpose-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	
Volatile Organic Compounds (VOC) Content	2.1 g/l	2.1 g/l	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	1.90 MPa	276 psi	ASTM D412
100% Modulus	0.0117 GPa	1.70 ksi	ASTM D412
Shear Strength	0.352 MPa	51.0 psi	Overlap, Polypropylene
	0.621 MPa	90.0 psi	Overlap, LD Polyethylene
	1.81 MPa	262 psi	Overlap, Nylon
	2.30 MPa	333 psi	Overlap, Glass
	2.46 MPa	357 psi	Overlap, Polycarbonate
	3.39 MPa	492 psi	Overlap, Acrylic
	3.64 MPa	528 psi	Overlap, ABS
	4.73 MPa	686 psi	Overlap, Fir
	5.45 MPa	790 psi	Overlap, PVC
	6.24 MPa	905 psi	Overlap, Aluminum
	6.971 MPa	1011 psi	Overlap, Cold Rolled Steel
	7.184 MPa	1042 psi	Overlap, Stainless Steel
	11.50 MPa	1668 psi	Overlap, FRP Green

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 °C	212 °F	

Thermal Properties	Temperature, Air	Metric °C	English	Comments
Processing Properties		Metric	English	Comments
Cure Time		3.00 - 5.00 min	0.0500 - 0.0833 hour	Open Time
		30.0 min	0.500 hour	Pressing Time
		1440 min	24.0 hour	Final Setting Time
Shelf Life		12.0 Month	12.0 Month	

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