

Zyvex Performance Materials Epovex™ Nano-Engineered Composite Epoxy Adhesive Paste

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive, Flexible

Material Notes:

Epovex® Adhesive Paste is a carbon nanotube enhanced two part epoxy adhesive thixotropic paste. Used for bonding or filling, Epovex Paste is ideal for many metals, woods, masonry products, and some plastics and rubbers. Epovex Paste was also designed to bond Zyvex Technologies' Arovex® composites. Features: Excellent flexibility Very high T-peel strengths Very high tensile shear strengths Non-drop, non-sag on vertical surfaces

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zyvex-Performance-Materials-Epovex-Nano-Engineered-Composite-Epoxy-Adhesive-Paste.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.980 g/cc	0.980 g/cc	Part B
	1.28 g/cc	1.28 g/cc	Part A

Mechanical Properties	Metric	English	Comments
Shear Strength	8.96 MPa	1300 psi	Cure cycle: 7 days @ RT , with Aced Etched 6061-T6 Aluminum
	@Temperature 82.2 °C	@Temperature 180 °F	
	12.1 MPa	1750 psi	Arovex (abraded), with Arovex Carbon Fiber Epoxy Laminate
	@Temperature 60.0 °C	@Temperature 140 °F	
	15.2 MPa	2210 psi	Aluminum (abraded), with Arovex Carbon Fiber Epoxy Laminate
	@Temperature 60.0 °C	@Temperature 140 °F	
	17.9 MPa	2600 psi	Cure cycle: 7 days @ RT , with Aced Etched 6061-T6 Aluminum
	@Temperature 60.0 °C	@Temperature 140 °F	
	21.4 MPa	3100 psi	Cure cycle: 7 days @ RT (+7 days ethyl alcohol soak), with Aced Etched 6061-T6 Aluminum
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	21.4 MPa	3100 psi	Cure cycle: 7 days @ RT (+7 days gasoline soak) , with Aced Etched 6061-T6 Aluminum
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	23.7 MPa	3440 psi	Arovex (abraded), with Arovex Carbon Fiber Epoxy Laminate
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	24.1 MPa	3500 psi	Aluminum (abraded), with Arovex Carbon Fiber Epoxy Laminate
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	24.8 MPa	3600 psi	Cure cycle: 7 days @ RT (+7 days water soak) , with Aced Etched 6061-

Mechanical Properties	@Temperature 23.9 °C Metric	@Temperature 75.0 °F English	T6 Aluminum Comments
	25.5 MPa	3700 psi	Arovex (abraded) (+7 days water soak), with Arovex Carbon Fiber Epoxy Laminate
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	25.5 MPa	3700 psi	Cure cycle: 3 days @ RT, with Aced Etched 6061-T6 Aluminum
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	27.6 MPa	4000 psi	Cure cycle: 7 days @ RT, with Aced Etched 6061-T6 Aluminum
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	27.6 MPa	4000 psi	Cure cycle: 12 hrs @ RT + 1 hr @ 176°F, with Aced Etched 6061-T6 Aluminum
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	30.3 MPa	4400 psi	Cure cycle: 2 hrs @ 176°F, with Aced Etched 6061-T6 Aluminum
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	30.3 MPa	4400 psi	Cure cycle: 7 days @ RT , with Aced Etched 6061-T6 Aluminum
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Peel Strength	5.26 kN/m	30.0 pli	Cure cycle: 1 day @ RT, with Acid Etched 6061-T6 Aluminum
	6.14 kN/m	35.0 pli	Cure cycle: 3 days @ RT, with Acid Etched 6061-T6 Aluminum
	7.01 kN/m	40.0 pli	Cure cycle: 12 hrs @ RT + 1 hr @ 176°F, with Acid Etched 6061-T6 Aluminum

Descriptive Properties	Value	Comments
Color	Amber	Part B, uncured
	Black	Blend, uncured
	Black	Part A, uncured

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