

Aremco Graphi-Bond™ 551-RN High Temperature Ceramic Adhesive/Paste, Graphite Filled

Category : Carbon , Graphite

Material Notes:

Aremco's ceramic adhesives are easy to use, one- and two-component systems which air dry in 1-2 hrs and are ready for use following a 200 to 700 °F cure. These materials are mostly water-based and do not outgas after curing. They are also environmentally safe, non-flammable materials which contain no volatile organic compounds. General Features: High Adhesive Strength Bonding: Graphite, Carbon
Principal Use: Structures, Molds Graphi-Bond™ 551-RN is exported only as a 2-component system due to shelf life considerations.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Graphi-Bond-551-RN-High-Temperature-Ceramic-AdhesivePaste-Graphite-Filled.php

Physical Properties	Metric	English	Comments
Density	1.45 - 1.50 g/cc	0.0524 - 0.0542 lb/in ³	

Mechanical Properties	Metric	English	Comments
Impact Test	40.7 J	30.0 ft-lb	Torque Strength; curing at 1000°F

Thermal Properties	Metric	English	Comments
CTE, linear	7.38 µm/m-°C	4.10 µin/in-°F	
Maximum Service Temperature, Inert	2980 °C	5400 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	2.95 kV/mm	75.0 kV/in	

Processing Properties	Metric	English	Comments
Processing Temperature	40.0 - 90.0 °C	104 - 194 °F	Application Temp
Cure Time	120 min	2.00 hour	Step 1, preceeded by 1-4 hour air set
	@Temperature 129 °C	@Temperature 265 °F	
Shelf Life	120 min	2.00 hour	Step 2
	@Temperature 260 °C	@Temperature 500 °F	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature -1.11 - 23.9 °C	@Temperature 30.0 - 75.0 °F	

Descriptive Properties	Value	Comments
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Acid Resistance Descriptive Properties	Good Value	after curing at 700°F for 2 hours Comments
Alkali Resistance	Good	after curing at 700°F for 2 hours
Color	Black	
Moisture Resistance	Excellent	after curing at 700°F for 2 hours
Solvent	Ethanol	
Thinner	Ethanol	

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