

Loctite® 3171 Deep Potting Polyurethane

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

Material Notes:

PottersLoctite® Potting materials are used on electronic device housings to enhance mechanical strength, provide electrical insulation and enhance vibration and shock resistance of assemblies. For electronics assembly, Loctite offers deep potting, high adhesion, non-corrosive, and thermally conductive potting products. These can be cured with heat, UV light, or moisture. Loctite® 3171 Deep Potting Polyurethane is a re-enterable polyurethane for deep potting applications that require flexibility, impact strength and repairability. Cure Type: Heat Bonding Type: 2 part polyurethane

Order this product through the following link:

http://www.lookpolymers.com/polymer_Loctite-3171-Deep-Potting-Polyurethane.php

Physical Properties	Metric	English	Comments
Viscosity	1000 cP	1000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	10	10	
Hardness, Shore OO	65	65	

Thermal Properties	Metric	English	Comments
CTE, linear	377 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	209 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Glass Transition Temp, Tg	-83.0 $^\circ\text{C}$	-117 $^\circ\text{F}$	

Processing Properties	Metric	English	Comments
Cure Time	5.00 min	0.0833 hour	
	@Temperature 85.0 $^\circ\text{C}$	@Temperature 185 $^\circ\text{F}$	
	960 min	16.0 hour	
	@Temperature 23.0 $^\circ\text{C}$	@Temperature 73.4 $^\circ\text{F}$	
Pot Life	10.0 min	10.0 min	
	@Temperature 23.0 $^\circ\text{C}$	@Temperature 73.4 $^\circ\text{F}$	
Gel Time	25.0 min	25.0 min	

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