

## Loctite® 638 Maximum Strength Retaining Compound

Category : Polymer , Adhesive , Thermoset

### Material Notes:

RetainersLoctite Corporation, the pioneer of anaerobic adhesives, has applied this technology to create retaining compounds that increase the shear strength of cylindrical, non-threaded assemblies. Finding wide acceptance as a standard method for assembling press and slip-fitted parts, Loctite® Retaining Compounds fill the "inner space" between components and cure to form a strong precision assembly. Formulated in a selection of viscosities, gap filling ability, flexibility and strength characteristics, Loctite® Retaining Compounds can be applied with automatic process equipment or dispensed manually.Loctite® 638 Maximum Strength Retaining CompoundA maximum strength retaining compound for use where high dynamic forces or cyclic loading is expected. Locks cylindrical assemblies up to 0.010" diameter clearance. Fixtures in 5 minutes. Recommended Primer: 7471 (T).Typical Use: High strength for loose fitting parts

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Loctite-638-Maximum-StrengthRetaining-Compound.php](http://www.lookpolymers.com/polymer_Loctite-638-Maximum-StrengthRetaining-Compound.php)

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in <sup>3</sup>	
Viscosity	2500 cP	2500 cP	

Mechanical Properties	Metric	English	Comments
Adhesive Bond Strength	31.0 MPa	4500 psi	Steel/Steel; Varies with substrates

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	149 °C	300 °F	
Minimum Service Temperature, Air	-53.9 °C	-65.0 °F	

Processing Properties	Metric	English	Comments
Cure Time	5.00 min	0.0833 hour	
	1440 min	24.0 hour	Full Cure; Steel
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Green	
Gap Fill	0.01 in.	Diametral

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