

Master Bond UV15X-6MED-2 UV Curable Compound for Medical Applications

Category : Polymer , Adhesive

Material Notes:

Description: Master Bond Polymer System UV15X-6MED-2 is a newly developed one component clear, non-yellowing, UV curable urethane elastomer system possessing high flexibility and outstanding abrasion resistance. This high viscosity system can be used for bonding, sealing, coating and casting. Master Bond UV15X-6MED-2 offers excellent physical strength properties including high elongation, good resistance to severe environmental conditions as well as the ability to withstand thermal cycling and thermal and mechanical shock. The service temperature range is -80°F to +300°F. UV15X-6MED-2 bonds well to a variety of substrates including glass, various plastics such as polycarbonates and acrylics, selected rubbers, and metals. In addition, Master Bond UV15X-6MED-2 possesses excellent thermal and electrical insulation properties. UV15X-6MED-2 is 100% reactive and does not contain solvents or other volatiles. *Most importantly, UV15X-6MED-2 meets USP Class VI specifications. With commercially available UV lamps cures "on demand" can be effected in very short time periods i.e. 1 minute or less at ambient temperatures. For example, when curing the UV15X-6MED-2 in thinner sections (10 mils or less) with a 200 watt mercury vapor continuous light source emitting at 365 nm, UV15X-6MED will cure tack free within 10 seconds at 40 milliwatts of output per cm². UV15X-6MED-2 will cure in thickness greater than 1/8" thick although the cure is not quite as rapid as it would be in thinner sections. Master Bond Polymer System UV15X-6MED-2 is not air inhibited. No solvents or other volatiles are emitted during cure. Master Bond UV15X-6MED-2 contains an exceptionally active UV curing initiator which makes cures practical even with relatively low intensity UV light sources. **Product Advantages:** One component system; no mixing needed; ready to use as supplied Exceptionally fast cure upon exposure to a UV light source at ambient temperatures No air inhibition while curing; no special inert atmosphere required 100% reactive; no volatiles emitted during cure High physical strength properties; good electrical and thermal insulation characteristics Excellent elongation; high impact strength; withstands thermal cycling and shock Outstanding abrasion resistance Good adhesion to many substrates especially glass and plastics Good chemical resistance and weather ability Meets USP Class VI specifications Information provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-UV15X-6MED-2-UV-Curable-Compound-for-Medical-Applications.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	
Viscosity	>= 24000 cP	>= 24000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	25 - 30	25 - 30	
Tensile Strength at Break	11.0 MPa	1600 psi	
Elongation at Break	>= 200 %	>= 200 %	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	149 °C	300 °F	

Minimum Service Temperature, Air Thermal Properties	-62.2 °C Metric	-80.0 °F English	Comments
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Optical Properties	Metric	English	Comments
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Refractive Index	1.5006	1.5006	
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Electrical Properties	Metric	English	Comments
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Volume Resistivity	>= 1.00e+12 ohm-cm	>= 1.00e+12 ohm-cm	
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Processing Properties	Metric	English	Comments
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Shelf Life	6.00 Month	6.00 Month	in original unopened container
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Descriptive Properties	Value	Comments
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Appearance	transparent	
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