

Technical Information Sheet

Product 207 Clear

PRODUCT DESCRIPTION

LOCTITE® Product 207 Clear is a single component, neutral (non-acetic) silicone sealant specially developed for polycarbonate, plastic materials in general, mirrors, non-ferrous metals, concrete and ceramics.

PROPERTIES OF UNCURED MATERIAL

	Typical Value	Allowable Range
Chemical Type	Polysiloxane(Oxime Cure System)	
Appearance	Clear paste	
Specific Gravity @ 25;æ	1.02	
Viscosity @ 25;æ	Thixotropic Paste	
Extrusion Rate, g/min (3mm Nozzle,3Bar,25;æ)	32	25 to 40

TYPICAL CURING PERFORMANCE

Fixture time, 25;æ,60%RH	15 min
100% Cure	24Hrs

TYPICAL PROPERTIES OF CURED MATERIAL

(Cured 7 days @ 23±2;æ,50±5%RH, gap=0.5mm)

Physical Properties

Tensile strength at break, ASTM D882, N/mm2	1.0
Peel strength, ASTM D624, N/mm	4.0
% Elongation to break, DIN53504,%	400
Modulus, DIN54504, N/mm2	0.35
Hardness (Shore A), DIN53505	18

Environmental Resistance	Excellent
Moisture Resistance	Excellent
Corrosion to metal	None
Adhesion	Excellent

Electrical Properties

Dielectric constant & loss, ASTM D150	constant	loss
Constant Loss @ 1 kHz	3.038	0.0005
@ 100 KHz	3.046	0.0007
@ 1 MHz	3.065	0.0045
Volume resistivity, ASTM D257, Ωcm	3.695 E15	
Surface resistivity, ASTM D257, Ω	2.087 E15	
Dielectric strength, ASTM D733, Volts/mil	491	

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).

Directions for use

This product is moisture sensitive. Exposure to air is not allowed during storage and handling. For best performance bond surfaces should be clean and free from grease.

Cure speed is dependent on environmental humidity and temperature.

Storage

Product shall be ideally stored in a cool, dry location in unopened containers at a temperature between 8;æ to 28;æ (46°F to 82°F) unless otherwise labeled. Optimal storage is at 8;æ;«18;æ range. To prevent contamination of unused product, do not return any material to its original container. For further specific shelf life information, contact your local Technical Service Center.

Data Ranges

The data contained herein may be reported as a typical value and/or range (based on the mean value ± 2 standard deviations). Values are based on actual test data and are verified on a periodic basis.

Note

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, Loctite Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Loctite Corporation's products. Loctite Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits. The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Loctite Corporation patents which may cover such processes or compositions. We recommend that each prospective user test his proposed applications before repetitive use, using this data as a guide. This product may be covered by one or more patents or patent applications.

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