OPTIMAX®

High Performance Manufacturing Adhesives & Sealants

Technical Data Sheet

Revision number 090914

Product	Optimax® 8100 UV Curable High Viscosity Windscreen Repair Resin
Description	Optimax® 8100 is specifically formulated to repair large stone chips and cracks in automotive windscreens. Designed as a high viscosity pit fill resin.
Advantages	Excellent clarity. Cure-on-demand one-component system. Cures by exposure to UV light with maximum absorption within the range of 350-380 nanometers. Good resistance to temperature extremes. Excellent adhesion. Low shrinkage.
Application	The high viscosity characteristics of Optimax® 8100 offers an excellent solution for large cracks and stone chips during windscreen repairing. Optimax® 8100 has excellent adhesion to windscreen glass surfaces with clarity that matches the windscreen's refractive index.

Physical properties

Chemical Type	Urethane Methacrylate
Appearance	Clear liquid
Specific Gravity@ 25 ^{0}C	1.1
Viscosity @ 25 ^{0}C, mPa.s (cP)	
Brookfield	1000
Refractive Index	1.53
Tensile Strength	26
Elongation @ break %	176
Hardness, Shore D	75

Cure Overview	This product requires direct UV exposure during cure. Because of the variability of different UV light sources it is suggested that the user test and specify UV intensity and exposure time.
Cure conditions	Cure can be affected with both low and high intensity UV light sources. A low UV intensity of 30 mW/cm^2 will cure highly transmitting surfaces with < 0.25mm gaps in 5 seconds or 1.5mm to 2.5mm gaps in 10 to 20 seconds. A high UV intensity of 100 mW/cm^2 will cure highly transmitting surfaces with < 0.25mm gaps in 2 seconds or 2.5mm to 5mm gaps in approximately 15 seconds.
Storage	Store between 8°C to 21°C out of direct sunlight and in tightly sealed original containers. Refer to packaging specific quote for shelf life information.
General information	For safe handling of this product consult the Material Safety Data Sheet.
Data ranges	The data contained in this data sheet may be reported as typical value and/or range. Values are based on actual test data and are verified on a regular basis.
Safety	Consult the Material Safety Data Sheet.

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Notes

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