

TECHNICAL DATA SHEET

Product:

KRM 8713B

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Polyacrylate resin for anti fog coating

INTRODUCTION

KRM 8713B is a polyacrylate resin diluted with 55% Methoxypropanol. Films of KRM 8713B cured by ultraviolet light (UV) or electron beam (EB) exhibit an excellent anti fog surface and clear appearance.

PERFORMANCE HIGHLIGHTS

KRM 8713B is characterized by :

- Light colour
- Low viscosity

UV/EB cured products based on KRM 8713B are characterized by the following performance properties:

- Excellent anti fog property
- Clear appearance
- Good adhesion on plastics
- Non yellowing

The actual properties of UV/EB cured products also depend on the selection of other formulation components, such as reactive diluents, additives and photoinitiators.

SUGGESTED APPLICATIONS

Formulated UV/EB curable products containing KRM 8713B can be diluted with solvent (eg. Ethanol, Methoxypropanol, Methylethylketone, etc) and applied by spray coating, screen, roller and curtain coating methods.

KRM 8713B is recommended for use in:

- Plastic coatings requiring anti fog property
- For safety goggles
- For gauge panels
- For auto motive lumps

SPECIFICATIONS

Appearance	Light yellow, liquid
Viscosity at 25 ° C, mPa.s	2500
Colour (APHA)	100

TYPICAL PHYSICAL PROPERTIES

Density, g/cm ³	n.a.
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Molecular weight, theoretical	35000
resin solids, % by weight	45
Methoxypropanol, % by weight	55

TYPICAL CURED PROPERTIES

Tensile strength, psi	n.a.
Elongation at break, %	n.a.
Young's modulus, psi	n.a.
Glass transition temperature, °C	100

STORAGE AND HANDLING

Care should be taken not to expose radiation curable products to temperatures exceeding 40°C for prolonged periods or to direct sunlight. This might cause uncontrollable polymerization of the product with generation of heat.

Storage and handling should be in stainless steel, amber glass, amber polyethylene or baked phenolic lined containers. Do not store this material under an oxygen free atmosphere. Use dry air to displace material removed from the container. This material should not be stored for more than 1 year.

PRECAUTIONS

The following is a summary of the precautions to be taken when handling this product. Please refer to the Material Safety Data Sheet for further details.

The toxicological properties of this material have not been fully determined. Products of this type can be expected to be eye and skin irritant and have the potential to cause sensitization or other allergic responses. Appropriate precautions should be taken to avoid eye and skin contact and to avoid inhalation of the aerosols or vapors. Consult the relevant Safety Data Sheet for appropriate handling procedures and protective equipment prior to using this or any other material referred to in this bulletin.

See Material Safety Data Sheet for emergency and first aid procedures.

STATUTORY LABELLING

Please refer to Safety Data Sheet.

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