

PRODUCT TYPE: CARBOXYLATED ACRYLIC COPOLYMER

TYPICAL PHYSICAL PROPERTIES and GENERAL INFORMATION

Property	Value
APPEARANCE, TMPD006, APPEARANCE	BLUE WHITE
COMPOSITION, TMPD005, RESIDUAL MONOMER	< 0.5 percent
DENSITY, TMPD004, WEIGHT/GALLON	8.8 - 9 lb-mass/gal
DISPERSION/EMULSION STABILIZER TYPE, SURFACTANT SYSTEM	SURFACTANT, ANIONIC
FREEZE/THAW STABILITY, TMPD011, FREEZE-THAW STABILITY	> 5 cycle
MECHANICAL STABILITY, TMPD010, MECHANICAL STABILITY (4)	> 900 second
PARTICLE SIZE, TMPD008, PARTICLE SIZE AVERAGE	< 0.25 micron
PH, TMPD003, PH-9972	9 - 9.5
SOLID CONTENT (NON-VOLATILES), TMPD001, SOLIDS	50 - 52 percent
SPECIFIC GRAVITY, D792/D1475, SPECIFIC GRAVITY	1.054 - 1.078
SURFACE TENSION, TMPD009, SURFACE TENSION (3)	41.3 - 43.3 dyne/cm
VISCOSITY, TMWB070, VISCOSITY (RVF-2/20/77 DEG.F.)	50 - 750 cP

TYPICAL POLYMER FILM PROPERTIES

Film Water clear, hard

Tg (5) +20°C

Storage Life: For best results, we recommend that product be used within 6 months.

Note: FDA status and product specifications available upon request.

- (1) Forced air oven 2 hours at 130 deg. C (110 deg. C. if modified)
- (2) Brookfield Viscometer Model RVF, at 20 RPM at 25 deg. C.
- (3) P.B. Tensiometer LG-60/40 E/W dilution with water.
- (4) Does not break after this time at high speed in Waring Blender.
- (5) Differential thermal analysis.
- (6) Brookfield Viscometer Model RVF, at 20 RPM at 29.5 deg. C.

LIMITED WARRANTY AND TERMS

H.B. Fuller Company ("Fuller") warrants that, for a Warranty Period of one year (or the period specified on the applicable Technical Data Sheet, whichever is less) from the date of shipment from Fuller to the Initial Purchaser, that this Fuller product was manufactured in accordance with Fuller's specifications in effect on the date of manufacture. These specifications are available upon request. This Warranty does not cover test data, or any defects, damages or other harms caused to any extent or in any way by failure to follow applicable Fuller instructions, if any, or abuse or misuse of the product.

WARRANTIES DISCLAIMED -- THE WARRANTY STATED IN THE PARAGRAPH ABOVE IS IN PLACE OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. Fuller EXPRESSLY DISCLAIMS ANY OTHER WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. ALTHOUGH Fuller MAY HAVE SUGGESTED THE PRODUCT OR DEVELOPED THE PRODUCT AT THE PURCHASER'S REQUEST, IT IS THE PURCHASER'S RESPONSIBILITY TO TEST AND DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE PURCHASER'S INTENDED USE AND PURPOSE, AND PURCHASER ASSUMES ALL RISK AND LIABILITY WHATSOEVER REGARDING SUCH SUITABILITY.

LIMITATIONS OF REMEDIES AND DAMAGES -- FOR ANY VALID CLAIM PRESENTED UNDER THE LIMITED WARRANTY, Fuller WILL REPLACE THE PRODUCT, OR AT ITS OPTION, REFUND THE PURCHASE PRICE. THIS REPLACEMENT/REFUND REMEDY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST Fuller. THE PURCHASER AGREES THAT NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO PURCHASER FOR CLAIMS ARISING OUT OF ANY USE OF THE PRODUCT REGARDLESS OF THE LEGAL THEORY (CONTRACT, TORT OR OTHER). IN NO EVENT WILL Fuller BE OBLIGATED TO PAY DAMAGES TO PURCHASER IN ANY AMOUNT EXCEEDING THE PRICE THAT THE PURCHASER PAID FOR THE PRODUCT.

LIMITATION OF ACTIONS AND VENUE -- Any claim made or action commenced by Purchaser under Fuller's limited warranty as set forth herein must be brought within one year from the date of shipment from Fuller to the Purchaser. Purchaser agrees that all disputes arising from Fuller's sale of product to Purchaser shall be brought, if at all, in and before a court located in the State of Minnesota, to the exclusion of the courts of any other state.

CONDITIONAL ACCEPTANCE -- Fuller's acceptance of Purchaser's order for this product is expressly conditional on Purchaser's assent to terms and conditions set forth herein.

ADEQUATE TESTS: The information contained in this bulletin we believe is correct to the best of our knowledge and tests. The recommendations and suggestions herein are made without guarantee or representation as to results. We recommend that adequate tests be made in your laboratory or plant to determine if this product meets all of your requirements.