



Technical Data Sheet

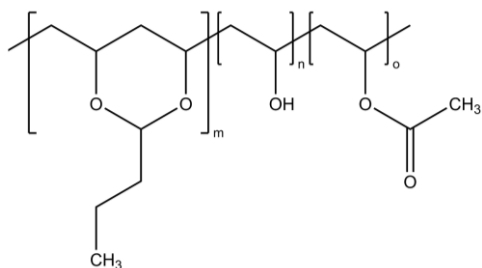
MATERIAL:	Poly(vinyl butyral)
CATALOG NUMBER:	043
CAS NUMBER:	27360-07-2
DESCRIPTION:	Poly(vinyl butyral) resin
FORMULA:	$(C_8H_{14}O_2)_x(C_2H_4O)_y(C_4H_6O_2)_z$

TYPICAL PROPERTIES:

Appearance:	Powder
Hydroxyl content:	11%
Acetate content:	1%
Butyral content:	88%
Approx Mw:	70,000 [GPC]
Density:	1.083 (23°C)
Melting point:	150°C
Refractive index:	n_D^{20} 1.485
Glass transition temp:	51°C
Brookfield viscosity:	150 cp (15% solution in 60/40 toluene/ethanol @ 25°C)
Solubility:	Acetone, butanol, ethanol, isopropanol, MEK, THF

GENERAL INFORMATION:

Poly(vinyl butyral) resins carry three functional groups (hydroxyl, acetate, and acetal) which provide an excellent balance of properties and compatibility. Films of poly(vinyl butyral) are transparent and offer excellent adhesion. Typical applications include laminated safety glasses, heat resistant wire insulation, and water-proof fabric coatings. Also has been used in surface coatings for wood, structural adhesive formulations, inks and dyes, paints, and hot melt adhesives. Can be crosslinked through heating with a trace of mineral acid.

STRUCTURE:

Technical information and data regarding the composition, properties or use of the products described herein is believed reliable. However, no representation or warranty is made with respect thereto except as made by Sp² in writing at time of sale. Sp² cannot assume responsibility for any patent liability which may arise from the use of any product in a process, manner or formula not designed by Sp².