



Technical Data Sheet

MATERIAL:	Poly(vinyl butyral)
CATALOG NUMBER:	509
CAS NUMBER:	27360-07-2
DESCRIPTION:	Poly(vinyl butyral) resin
FORMULA:	$(C_8H_{14}O_2)_x(C_2H_4O)_y(C_4H_6O_2)_z$

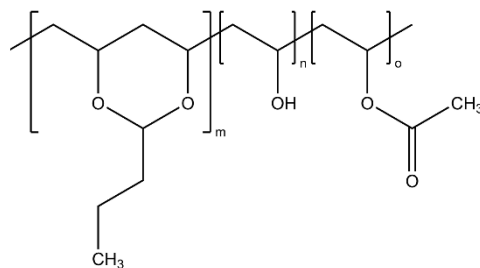
TYPICAL PROPERTIES:

Appearance:	Powder
Hydroxyl content:	19%
Acetate content:	1%
Butyral content:	80%
Approx Mw:	140,000 [GPC]
Density:	1.100 (23°C)
Refractive index:	n_D^{20} 1.490
Glass transition temp:	51°C
Melting point:	170°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:



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