TECH DATA SHEET

PEAM-645



$$H_3C$$
 CH_2

Where $n = 1$ to 5

DESCRIPTION

PEAM-645 is a polyester acrylate/methacrylate that exhibits low CTE, high Tg, and high modulus. The oligomer has very high thermal stability and low volatility. It can be used as a base resin in a formulation or as an additive. It exhibits good adhesion on various substrates. The oligomer also exhibits good hydrolytic stability.

HIGHLIGHTS

- High Tg
- Low CTE

- High adhesion to various substrates
- · Thermal stability

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	METHOD	RESULT
Appearance at Room Temperature	Visual	Amber liquid
Viscosity @ 40°C	Haake Rheometer	5,000 cP
Functionality		2
Molecular Weight		645 daltons
Weight Loss @ 300°C	TGA	< 3.0%
Decomposition Temperature	TGA	> 375°C
Recommended Storage Temp		10°C or below
PHYSIOCHEMICAL		
Glass Transition Temperature	TMA	160°C
cured with 2% Dicumyl Peroxide	DMA	183°C
Coefficient of Thermal Expansion	TMA	∞ ₁ 50 ppm/°C
cured with 2% Dicumyl Peroxide		∞ ₂ 173 ppm/°C
Dynamic Tensile Modulus		
cured with 2% Dicumyl Peroxide	Dhaanatiisa	
-65°C	Rheometrics	4,100 MPa
25°0	Rheometer	3,400 MPa
150°0	C	1,600 MPa

Data is for reference only and may vary depending on testing method used. The structure shown above is an idealized representation of a statistical distribution.

RECOMMENDED FORMULATION USE:

PEAM-645 is recommended for use as a base resin in adhesive applications or coating applications. The material if used alone can exhibit brittleness and the incorporation of a toughener (such as ABS, or hyperbranched polyester) is recommended. The oligomer has good solubility in both aliphatic and aromatic co-monomers.

CONTACT:

REQUEST A SAMPLE OR PLACE AN ORDER

Customer Support

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