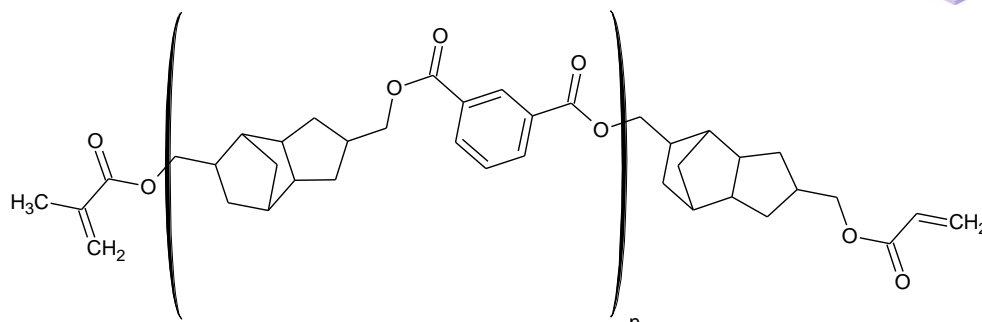


TECH DATA SHEET

PEAM-645



Where n = 1 to 8

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	9,500 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 cured with 2% Dicumyl Peroxide	TMA	160°C
	DMA	183°C
Coefficient of Thermal Expansion cured with 2% Dicumyl Peroxide	TMA	α_1 50 ppm/°C
		α_2 173 ppm/°C
Dynamic Tensile Modulus cured with 2% Dicumyl Peroxide	Rheometrics Rheometer	-65°C
		25°C
		150°C
		4,100 MPa
		3,400 MPa
		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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