Technical Datasheet

INEOS Composites

AME™ 6441 Series Modified Epoxy Resin

The AME 6441 Series are pre-promoted, thixotropic modified epoxy resins used for hand spray-up and lay-up applications. These resins contain less than 35% styrene for lower emissions during fabrication while delivering excellent mechanical properties.

Typical Liquid Resin Properties

Liquid properties are based on AME 6441 T-40.

Property[1]	Value	Unit
Viscosity, #3 @ 60 rpm	700	mPas (cps)
Thix Index	3.0	
Room Temperature Gel	40	minutes
Catalyst: 1.25g Norox MEKP-925H / 100g Resin		

Typical Cured Resin Properties

Property[1]	Value	Unit	Test Method
Tensile Strength	12,000	psi	ASTM D 638
Tensile Modulus	480	ksi	ASTM D 638
Tensile Elongation	5.0	%	ASTM D 638
Flex Strength	19,000	psi	ASTM D 790
Flex Modulus	480	ksi	ASTM D 790
HDT	245	F	ASTM D 648

[1] Properties are run at 25°C (77°F) unless otherwise stated. Properties are typical values, based on target values in INEOS Composites QC laboratories. Sample results vary from batch to batch. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

Certificates and Approvals

The manufacturing, quality control and distribution of products, by INEOS Composites, comply with one or more of the following programs or standards: ISO 9001, Responsible Care, ISO 14001 and OHSAS 18001.

Standard Package

205 Kg Net Weight Non-Returnable Drum
DOT Label Requirement: Flammable Liquid

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Commercial Warranty

Three months from date of manufacture, when stored in accordance with the storage conditions stated below.

Storage

Drums - Store at temperatures below 25°C (77°F). Storage life decreases with increasing storage temperature. Avoid exposure to heat such as direct sunlight or steam pipes. To avoid contamination of the product with water, do not store outdoors. Keep sealed to prevent moisture pick-up and monomer loss. Mild mixing is recommended after prolonged storage. Rotate stock.

Bulk - Refer to INEOS Composites's Bulk Storage and Handling Manual for Polyesters and Vinyl Esters. A copy of this may be obtained from INEOS Composites at 1-614-790-3333 or 1-800-523-6963.

All other conditions being equal, higher storage temperatures will reduce product stability and lower storage temperature will extend product stability.

Notice

All information presented herein is believed to be accurate and reliable, and is solely for the user's consideration, investigation and verification. The information is not to be taken as an express or implied representation or warranty for which INEOS Composites assumes legal responsibility. Any warranties, including warranties of merchantability, fitness for use or non-infringement of intellectual property rights of third parties, are herewith expressly excluded.

Since the user's product formulations, specific use applications and conditions of use are beyond the control of INEOS Composites, INEOS Composites makes no warranty or representation regarding the results which may be obtained by the user. It shall be the sole responsibility of the user to determine the suitability of any of the products mentioned for the user's specific application.

INEOS Composites requests that the user reads, understands and complies with the information contained herein and the current Material Safety Data Sheet.