Technical Datasheet

INEOS Composites

ENVIREZ™ LF 56403 T Series Recycled Content Resin

Description

ENVIREZ LF 56403 T Series resin is promoted, thixotropic polyester resin containing recycled material components. The product is low shrink, allows high filler loading and provides excellent bonding. The product is designed for use as a back up resin in shower and spa applications.

This product contains approximately 11% post industrial recycle content.

Typical Liquid Resin Properties

Property(1)	Envirez LF 56403 T-12	Envirez LF 56403 T-25	Unit
Filled Viscosity (RV #3 @ 20 rpm) at 77°F	1600	1600	mPas (cps)
Filled Thix Index	2.4	2.4	
Styrene Content	38.5	38.5	%
Room Temperature Gel Time (filled)	12	25	minutes
Gel to Peak Exotherm Time (filled)	13		minutes
Peak Exotherm Temperature (filled)	225	220	°F

Filled viscosity value run at 77°F using a blend of 44% resin / 56% filler. Filler is a 50/50 blend of 125 and 325 Carb. Filled gel test run using 100 grams of resin/filler mix and 2.0% MEKP-9 initiator.

(1) Properties are typical values based on material tested in our laboratories. Typical values should not be considered an analysis of any specific lot or as specifications items.

Typical Clear Cast Properties

Property	Value	Unit	Method
Tensile Strength	8,900	psi	ASTM D 638
Tensile Modulus	460	ksi	ASTM D 638
Elongation at Break	2.4	%	ASTM D 638
Flexural Strength	14,900	psi	ASTM D 790
Flexural Modulus	470	ksi	ASTM D 790
HDT	132	F	

Clear castings cured using 1.25% MEKP at room temperature. Cured at room temperature for 24

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hours followed with a 2 hour post cure at 60C.

Standard Package	Bulk TW or Steel Drum with Net Weight of 220 Kgs (485 Lbs)
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 sources such as direct sunlight or steam pipes. To avoid contamination of product with water, do not store outdoors. Keep containers sealed to prevent moisture pick-up and monomer loss. Mild mixing is recommended after prolonged storage. Rotate stock. Bulk: See 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 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.

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