connora

ReRez® Epoxy Resin E2930 with ReRez® R2107 Curing Agent

RECYCLABLE EPOXY SYSTEM FOR HEAT CURING COMPRESSION MOLDING APPLICATIONS

Recommended Cure Cycle = 10 minutes @ 84 ºC

Applications

ReRez® Epoxy Resin E2930 with ReRez® R2107 Curing Agent is specifically formulated for heat assisted curing, compression molding applications, such as for skis and snowboard manufacturing.

WHY CHOOSE REREZ®

Zero-Landfill Manufacturing:
Composite manufacturing waste can be recycled, and re-integrated back into the composites supply chain. Reduce landfill costs, and improve product margins.

Create Downstream Value:
Connora Recycling uses a low energy, solution-based process that allows both the resin and fiber reinformcements to be reclaimed in a high quality, virgin-like state, preserving performance and value.

Cradle-To-Cradle Solution:
Composite products made with ReRez® are fully recyclable through Connora Technologies.

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Physical Properties

ReRez® 2107	
AEW	52.5
Viscosity (Brookfield, 25 °C)	150-250 cP
Formulation with Connora E2930 Epoxy Resin (EEW 188)	
PPH amine / 100 part resin	30
Mixed Viscosity (5 min; Brookfield, 25 °C)	3,000 - 4,000 cP
Pot life (100 g mass, 21 °C)	20 min
***Elevated Temperature Cure, 3 hr at 100 °C**	
Tg., °C	85 - 95
Tensile Strength, psi (MPa)	9,890 (68.2)
Tensile Modulus, psi (GPa)	485,070 (3.3)
% Elongation at break	6.8%
Flexural Strength, psi (MPa)	15,600 (107.6)
Flexural Modulus, psi (GPa)	453,760 (3.1)
***Elevated Temperature Cure, 3 hours @ 100 °C**	
Lap Shear on Aluminum, psi (MPa)	4,200 (29.0)

** Tensile (ASTM D638); Flexural (ASTM D790); Tg determined by DSC** ASTM D1002*

Recommended Cure Cycles

The suggested curing temperature range for this ReRez® compression molding system is 10 minutes @ 84 ºC for optimal mechanical properties.

Safety and Handling

ReRez® hardeners are amine derived curing agents, as such they should be treated as a corrosive and an inhalation hazard. All persons who use, store, or transport these materials should properly understand the handling precautions and recommendations as stated in the MSDS.

Industrial Recycling

Recycling of composite waste is performed at Connora Technologies using a low energy, solution-based process. Outputs of the recycling process are an epoxy thermoplastic and all constituent components are recovered in a near virgin state, including reinforcements. For recycling of manufacturing waste, please contact Connora Technologies.

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