TDS

TECHNICAL DATA SHEET

ENTROPY RESINS®

Clear Casting System

Clear, Low Viscosity Liquid Epoxy Resin for Casting, Potting, and Embedding

Product Overview

CCR is a water-clear, UV stabilised, low-viscosity epoxy system designed specifically for casting, potting, and embedding applications. Low colour and low viscosity allow for bubble-free, crystal clear casting ideal for art and hobby applications.
The system features two hardener speeds: slow (CCS) for high build casting resin applications and fast (CCF) for quick, small project fast casting resin applications such as resin jewellery and more. CCR is a USDA Certified BioPreferred® Product with 30% biobased content.

	CCF FAST	CCS SLOW
MECHANICAL DATA		
Tensile Modulus (ASTM D638)	3.1 GPa	3.0 GPa
Tensile Strength (ASTM D638)	56.1 MPa	54.5 MPa
Elongation (ASTM D638)	6%	6.5%
Flexural Modulus (ASTM D790)	2.7 GPa	2.8 GPa
Flexural Strength (ASTM D790)	81.7 MPa	76.5 MPa
Compression Strength (ASTM D695)	85.4 MPa	74.9 MPa
Tg Ultimate (DSC, midpoint)	51°C	52°C
Hardness (Shore D)	70-80	70-80
PROCESSING DATA		
Mix Ratio (by volume)	2:1	2:1
Mix Ratio (by weight)	100:43	100:42
Viscosity (A/B/Mixed @ 25 °C)	2160/30/370 mPas	2160/15/270 mPas
Component Density (specific density @ 25°C)	1.12 (resin), 0.97 (hardener) gcm^{-3}	1.12 (resin), 0.95 (hardener) gcm^{-3}
Mixed Density (specific density @ 25°C)	1.08 gcm^{-3}	1.07 gcm^{-3}
Pot Life (@ 25°C)	90 min	360 min
Tack Free Time (@ 35°C)	24 hrs	72 hrs
Recommended Full Cure	7 days @ 25°C, Post cure recommended	7 days @ 25°C, Post cure recommended
ENVIRONMENT DATA		
VOC Content (ASTM D2369)	9.2 g/l	8.0 g/l
Biobased Carbon Content (ASTM D6866)	20%	20%

These are typical properties and cannot be construed as a specification. The end users should test the products to ensure the products are suitable for the intended application. Any information, data, advice or recommendation published by Wessex Resins or obtained from Wessex Resins by other means and whether relating to Wessex Resins' materials or other materials, is given in good faith and believed to be reliable.

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SUPER SAP® FORMULATION

USDA CERTIFIED BIOBASED PRODUCT PRODUCT 30%

1% FOR THE PLANET