

305

COMPRESSION
MOULDING RESIN

Technical Data Sheet

SUPER SAP® 305 System

High Bio-Content, General Purpose Liquid
Epoxy Resin

Product Overview

SUPER SAP® 305 SYSTEM is an industrial epoxy system designed specifically for the compression moulding processes of composite parts. It delivers on the same a high bio-content, excellent fibre wetting qualities, and thixotropic characteristics of our Super Sap® CPM Epoxy Resin but with increased temperature resistance for even faster cycle times. A high modulus combined with excellent elongation properties enable durable yet lightweight composites parts.
Super Sap – Make Things Better.

CPF
FAST

CPS
SLOW

MECHANICAL DATA

Tensile Modulus (ASTM D638)	3.4 GPa	3.2 GPa
Tensile Strength (ASTM D638)	73.1 MPa	68.9 MPa
Elongation (ASTM D638)	6.2%	7%
Flexural Modulus (ASTM D790)	3.0 GPa	2.9 GPa
Flexural Strength (ASTM D790)	109.4 MPa	102.0 MPa
Compression Strength (ASTM D695)	84.1 MPa	81.4 MPa
Tg Ultimate (DSC, midpoint)	81°C	82°C
Hardness (Shore D)	70-80	70-80

PROCESSING DATA

Mix Ratio (by volume)	2:1	2:1
Mix Ratio (by weight)	100:44	100:38
Viscosity (A/B/Mixed @ 25 °C)	4300/2200/1400	4300/450/950
Component Density (specific density @ 25°C)	1.13 (resin), 0.99 (hardener)	1.13 (resin), 0.96 (hardener)
Mixed Density (specific density @ 25°C)	1.09	1.08
Pot Life (@ 25°C)	20 min	50 min
Tack Free Time (@ 35°C)	N/A	N/A
Recommended Full Cure	15 min @ 82°C	20 min @ 82°C

ENVIRONMENT DATA

VOC Content (ASTM D2369)	N/A	N/A
Biobased Carbon Content (ASTM D6866)	30%	30%

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.

Wessex Resins & Adhesives Ltd.
Cupernham House, Cupernham Lane
Romsey, Hampshire, SO51 7LF, UK

+44(0)1794 521111
info@westsysteminternational.com
www.entropyresins.com

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