

D-MEC SCR735

Epoxy; Epoxide

D-MEC Ltd.

Message:

Characteristics: High heat resistance, high toughness

Laser: Solid-state

Post-cure: Not needed /or heating

General Information		
Features	Good Toughness	
	High Heat Resistance	
Forms	Liquid	
Processing Method	3D Printing, Stereolithography	
Physical	Nominal Value	Unit
Density ¹	1.13	g/cm ³
Viscosity ² (25°C)	470	mPa · s
Critical Exposure	23.0	mJ/cm ²
Penetration Depth	160.0	µm
Mechanical	Nominal Value	Unit
Tensile Modulus		
-- ³	2720	MPa
--	2510	MPa
Tensile Strength		
-- ⁴	67.0	MPa
--	45.0	MPa
Tensile Elongation		
Break ⁵	6.0	%
Break	6.8	%
Flexural Modulus		
-- ⁶	2570	MPa
--	2530	MPa
Flexural Strength		
-- ⁷	97.0	MPa
--	83.0	MPa
Impact	Nominal Value	Unit
Unnotched Izod Impact		
-- ⁸	34 to 39	J/m
--	29 to 33	J/m
Thermal	Nominal Value	Unit
Deflection Temperature Under Load		

1.8 MPa, Unannealed ⁹	85.0	°C
1.8 MPa, Unannealed	48.0	°C
Glass Transition Temperature		
--	90.0	°C
-- ¹⁰	110	°C

NOTE

- | | |
|-----|---------------|
| 1. | Liquid Resin |
| 2. | Liquid Resin |
| 3. | With postcure |
| 4. | With postcure |
| 5. | With postcure |
| 6. | With postcure |
| 7. | With postcure |
| 8. | With postcure |
| 9. | With postcure |
| 10. | With postcure |

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

