

TECHNICAL DATA

TEC355 - Transparent



Material Overview

TEC355 - Transparent (Wavelength 355nm) is an optically transparent SLA resin for quickly producing clear, functional and accurate parts with acrylic appearance. It's fast to build and easy to use. The ideal application is transparent assemblies, bottles, tubes, automotives lenses, lighting components, fluid flow analysis and etc., and also tough functional prototypes.

Advantages

- Excellent transparency
- Excellent humidity and moisture resistance
- Fast to build and easy to finish
- Accurate and dimensionally stable

Ideal Applications

- Automotive lenses
- Bottles and tubes
- Tough functional prototypes
- Transparent display models
- Fluid flow analysis

Technical Datasheet

Liquid Properties		Optical Properties	
Appearance	Clear	Dp	0.135-0.155 mm
Viscosity	325-425 cps @ 28 °C	Ec	9-12 mJ/cm ²
Density	1.11-1.14g/cm ³ @ 25 °C	Building layer thickness	0.1-0.15mm

Mechanical Properties		UV Postcure
Measurement	Test Method	Value
Hardness, Shore D	ASTM D 2240	72-78
Flexural modulus, Mpa	ASTM D 790	2,680-2,775
Flexural strength, Mpa	ASTM D 790	65-75
Tensile modulus, MPa	ASTM D 638	2,170-2,385
Tensile strength, MPa	ASTM D 638	25-30
Elongation at break	ASTM D 638	12 -20%
Impact strength, notched Izod, J/m	ASTM D 256	58-70
Heat deflection temperature, °C	ASTM D 648 @66PSI	50-60
Glass transition, Tg, °C	DMA, E"peak	55-70
Density, g/cm³		1.14-1.16

Recommended temperature for processing and storage of the above resin should be 18°C-25°C.

The above data are based on our current knowledge and experience, the values of which may vary and depend on individual machine processing and post-curing practices. The safety data given in above is for information purposes only and does not constitute a legally binding MSDS. The relevant MSDS can be obtained upon request from your supplier or you may contact Teccluster A/S directly at "info@teccluster.com"