

RR355-101-CAS

Manufactured by Spectra Photopolymers



Excellent for investment casting patterns

- Aerodynamic test models
- Short-run injection molds and inserts
- Heat resistant fluid exposed component, jigs, and fixtures
- Simulates stiffness of glass and fiber-filled thermoplastics



RR355-101-CAS is a Direct casting material that was formulated for our Raplas production equipment. RR355-101-CAS offers the best performance characteristics as follows: low deformation due to shrink, strength, durability, water resistance. The RR355-101-CAS is transparent in colour.

TYPICAL PHYSICAL PROPERTIES

MECHANICAL PROPERTIES	TEST METHOD	ENGLISH		METRIC	
Color/Appearance	Visual	Transparent	Yellow/Green	Transparent	Yellow/Green
Density (as cured)	Measured	0.042 lb/in ³		1.16 g/cm ³	
Shore D Hardness	ASTM D2240	83 D		83 D	
Deformation Due to Shrink	SDM	0.30%		0.30%	
Tensile Strength	ASTM D638	7,758 psi		53 MPa	
Tensile Modulus	ASTM D638	387,000 psi		2,668 MPa	
Elongation at Break	ASTM D638	4 - 8%		4 - 8%	
Elongation at Yield (%)	ASTM D638	-		-	
Flexural Strength	ASTM D638	12,010 psi		83 MPa	
Flexural Modulus	ASTM D790	280,000 psi		1,930 MPa	
Impact Strength (Notched Izod)	ASTM D256	0.35 ft-lb/in		18.69 J/m	
Heat Deflection Temperature @ 264 psi	ASTM D648	122°F		50°C	
Heat Deflection Temperature @ 66 psi	ASTM D648	127°F		53°C	
Coefficient of Thermal Expansion, 0 - 30°C	ASTM E831-93	57.1 µin/in-°F		102.7 µm/m-°C	
Coefficient of Thermal Expansion, 90 - 150°C	ASTM E831-93	96.9 µin/in-°F		174.5 µm/m-°C	