

CALIBRE™ 302V-15 Polycarbonate Resin

Overview

CALIBRE™ 300V-15 Series polycarbonate resins offer exceptional impact resistance, heat distortion resistance, optical clarity and meets UL94 V-2 rating. The CALIBRE 300V series products are available in 2 additive packages: CALIBRE 302V: UV stabilizer. CALIBRE 303V: Mold release and UV stabilizer.

Govt. And Industry Standards:

- CSA (Canadian Standards Association)
- UL (Underwriters Laboratory, Inc.)

Applications:

- Electronic components
- Lighting
- Storage media housings

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.20 g/cm ³	1.20 g/cm ³	ISO 1183/B
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	15 g/10 min	15 g/10 min	ISO 1133
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3 in/in	0.50 to 0.70 %	ISO 294-4
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	334000 psi	2300 MPa	ISO 527-2/50
Tensile Stress			ISO 527-2/50
Yield	8700 psi	60.0 MPa	
Break	10300 psi	71.0 MPa	
Tensile Strain			ISO 527-2/50
Yield	6.0 %	6.0 %	
Break	150 %	150 %	
Flexural Modulus ¹	348000 psi	2400 MPa	ISO 178
Flexural Stress ¹	14100 psi	97.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	12 ft-lb/in ²	25 kJ/m ²	ISO 179/1eA
Notched Izod Impact (73°F (23°C))	16 ft-lb/in	850 J/m	ISO 180/4A
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Annealed	284 °F	140 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	250 °F	121 °C	ISO 75-2/A
264 psi (1.8 MPa), Annealed	279 °F	137 °C	ISO 75-2/A
Vicat Softening Temperature	293 °F	145 °C	ISO 306/B50
Ball Indentation Temperature	257 °F	125 °C	IEC 60335-1
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Comparative Tracking Index			IEC 60112
0.0787 in (2.00 mm), Solution A	250 V	250 V	
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating ²			UL 94
0.06 in (1.6 mm)	V-2	V-2	
0.13 in (3.2 mm)	V-2	V-2	