

CALIBRE™ 301V-10

Polycarbonate Resin

Trinseo

Message:

CALIBRE™ 300V-10 Series polycarbonate resins offer exceptional impact resistance, heat distortion resistance, optical clarity and meet UL94 V-2 rating. The CALIBRE 300V series products are available in 3 additive packages: CALIBRE 301V: Mold release. CALIBRE 302V: UV stabilizer. CALIBRE 303V: Mould release and UV stabilizer.

Govt and Industry Standards:

CSA (Canadian Standards Association)

UL (Underwriters Laboratory, Inc.)

Applications:

Electronic components

Lighting

Storage media housings

General Information			
UL YellowCard	E54680-469963	E206114-228277	
Additive	Mold Release		
Features	High Clarity		
	High Impact Resistance		
Uses	Electrical/Electronic Applications		
	Housings		
	Lighting Applications		
Agency Ratings	CSA Unspecified Rating		
Forms	Pellets		
Processing Method	Film Extrusion		
	Injection Molding		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183/B
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.50 to 0.70	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2/50
Tensile Stress			ISO 527-2/50
Yield	60.0	MPa	
Break	71.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	6.0	%	
Break	150	%	

Flexural Modulus ¹	2400	MPa	ISO 178
Flexural Stress ²	97.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	35	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	900	J/m	ISO 180/4A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	141	°C	ISO 75-2/B
1.8 MPa, Unannealed	122	°C	ISO 75-2/A
1.8 MPa, Annealed	138	°C	ISO 75-2/A
Vicat Softening Temperature	146	°C	ISO 306/B50
Ball Indentation Temperature	125	°C	IEC 60335-1
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (2.00 mm, Solution A)	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating ³			UL 94
1.60 mm	V-2		
3.20 mm	V-2		
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		

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