

CALIBRE™ 303V-6

Polycarbonate Resin

Trinseo

Message:

CALIBRE™ 303V-6 Polycarbonate resin offers exceptional impact resistance and heat distortion resistance, and meets UL94 V-2 rating. CALIBRE 303V-6 contains a mold release agent, a UV stabilizer additive, and is available in opaque white color only.

Govt. and Industry Standards:

CSA (Canadian Standards Association)

UL (Underwriters Laboratory, Inc.)

Consult the regulations for complete details.

Applications:

Electronic components

Automotive

Lighting

Storage Media Housings

General Information			
UL YellowCard	E54680-469967	E206114-228279	
Additive	Mold Release		
	UV Stabilizer		
Features	High Impact Resistance		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Housings		
	Lighting Applications		
Agency Ratings	CSA Unspecified Rating		
Appearance	Opaque		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Water Absorption			ASTM D570
23°C, 24 hr	0.15	%	
Equilibrium, 23°C, 50% RH	0.32	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	73		
R-Scale	118		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (2.00 mm)	2410	MPa	ASTM D638

Tensile Strength ²			ASTM D638
Yield	60.0	MPa	
Break	72.4	MPa	
Tensile Elongation			
Yield ³	6.0	%	ASTM D638
Break ⁴	150	%	ASTM D638
Break	150	%	ISO 527-2
Flexural Modulus ⁵	2410	MPa	ASTM D790
Flexural Strength ⁶	96.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	910	J/m	ASTM D256
Unnotched Izod Impact (23°C)	No Break		ASTM D256
Instrumented Dart Impact (23°C, Total)	90.4	J	ASTM D3763
Tensile Impact Strength	588	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Annealed	142	°C	ASTM D648
1.8 MPa, Unannealed	122	°C	ASTM D648
1.8 MPa, Annealed	139	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature	148	°C	ASTM D1525
CLTE - Flow (-40 to 82°C)	5.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+17	ohms·cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	3.00		
1 MHz	3.00		
Dissipation Factor			ASTM D150
50 Hz	1.0E-3		
1 MHz	2.0E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating ⁷			UL 94
1.60 mm	V-2		
3.20 mm	V-2		
Oxygen Index ⁸	26	%	ISO 4589-2
Average Extent of Burning	3	cm	ASTM D635
NOTE			
1.	51 mm/min		
2.	Type I, 51 mm/min		
3.	Type I, 51 mm/min		
4.	Type I, 51 mm/min		
5.	Type I, 1.3 mm/min		

6.	Type I, 1.3 mm/min
7.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.
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