

CALIBRE™ 891-10 Polycarbonate Resin

Overview

CALIBRE™ 891-10 Series provides superior ignition resistance in opaque applications. The CALIBRE 891-10 series products are available in 2 additive packages: CALIBRE 891: Mold release, CALIBRE 893: Mold release and UV stabilizer.

Main Characteristics:

- Underwriters Laboratory Inc. (UL)

Applications:

- Electronics
- Business equipment
- Appliances

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.20 g/cm ³	1.20 g/cm ³	ASTM D792 ISO 1183/A
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10 g/10 min	10 g/10 min	ASTM D1238 ISO 1133
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3 in/in	0.50 to 0.70 %	ASTM D955 ISO 294-4
Water Absorption			
24 hr, 73°F (23°C)	0.15 %	0.15 %	ASTM D570
73°F (23°C), 24 hr	0.15 %	0.15 %	ISO 62
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus			
-- ¹	345000 psi	2380 MPa	ASTM D638
--	345000 psi	2380 MPa	ISO 527-2/50
Tensile Strength			
Yield ¹	8900 psi	61.4 MPa	ASTM D638
Yield	8850 psi	61.0 MPa	ISO 527-2/50
Break ¹	8500 psi	58.6 MPa	ASTM D638
Break	8560 psi	59.0 MPa	ISO 527-2/50
Tensile Elongation			
Break ¹	120 %	120 %	ASTM D638
Break	120 %	120 %	ISO 527-2/50
Flexural Modulus			
-- ²	338000 psi	2330 MPa	ASTM D790
-- ^{3,4}	338000 psi	2330 MPa	ISO 178
Flexural Strength			
-- ²	14200 psi	97.9 MPa	ASTM D790
-- ^{3,4}	14200 psi	98.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			
73°F (23°C)	13 ft·lb/in	690 J/m	ASTM D256
73°F (23°C)	32 ft·lb/in ²	68 kJ/m ²	ISO 180/A
Instrumented Dart Impact ⁵			ASTM D3763
73°F (23°C), Total Energy	550 in·lb	62.1 J	
Tensile Impact Strength	300 ft·lb/in ²	630 kJ/m ²	ASTM D1822

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness			ASTM D785
M-Scale	59	59	
R-Scale	123	123	