

Technical Information



CALIBRE™ EV34 GF30

Advanced Resin

Overview

CALIBRE™ EV34 GF30 is an ignition-resistance, 30% glass reinforced, polycarbonate resin containing no bromine, chlorine additives. It is easy flow resin with a mold release system designed for thin wall injection moulding applications. CALIBRE™ EV34 GF30 has a UL94 V-0 rating at 2.0 mm.

Applications:

- Battery module endplate

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.43 g/cm ³	1.43 g/cm ³	ASTM D792
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus ¹	1.02E+6 psi	7000 MPa	ASTM D638
Tensile Strength ¹ (Break)	16400 psi	113 MPa	ASTM D638
Tensile Elongation ² (Break)	2.0 %	2.0 %	ASTM D638
Flexural Modulus ³	1.29E+6 psi	8900 MPa	ASTM D790
Flexural Strength ³	23500 psi	162 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.4 ft-lb/in	75 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	5.4 ft-lb/in	290 J/m	ASTM D4812
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	230 °F	110 °C	ASTM D648
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating ⁴			UL 94
0.06 in (1.5 mm)	V-1	V-1	
0.08 in (2.0 mm)	V-0	V-0	
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	212 °F	100 °C	
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr	
Processing (Melt) Temp	500 to 572 °F	260 to 300 °C	
Mold Temperature	176 to 230 °F	80 to 110 °C	

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ 0.039 in/min (1.0 mm/min)

² 2.0 in/min (50 mm/min)

³ 0.051 in/min (1.3 mm/min)

⁴ This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.

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