

Technical Information



CALIBRE™ 320 UV Polycarbonate Resin

Overview

CALIBRE™ 320 UV polycarbonate resin is designed as a protective UV-absorbing cap layer to be co-extruded as a 50 µm thick layer on standard PC sheets for outdoor applications. CALIBRE 320UV contains a proprietary UV stabilization package that combines long term protection against ultraviolet radiation with easy processing, low plate-out and low discoloration.

Main Characteristics:

- Excellent UV protection for outdoor sheet applications
- Retains properties of final sheet
- Very low plate-out to minimise downtime for cleaning
- Very high thermal stability
- Very high color stability

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.20 g/cm ³	1.20 g/cm ³	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	7.0 g/10 min	7.0 g/10 min	ASTM D1238 ISO 1133
Water Absorption			ISO 62
Saturation, 73°F (23°C)	0.32 %	0.32 %	
Equilibrium, 73°F (23°C), 50% RH	0.12 %	0.12 %	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus ¹	334000 psi	2300 MPa	ASTM D638
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	248 °F	120 °C	
Drying Time	4.0 hr	4.0 hr	

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)

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