

Technical Information



STYRON™ CO2RE™ 666HBIO95

General Purpose Polystyrene Resin

Overview

STYRON™ CO2RE™ 666HBIO95 GPPS is credited with 95% of ISCC+ bio-based feedstocks through mass balance certification. It is a general purpose polystyrene with easy flow and good clarity. It is recommended for applications where a specific balance of flow and strength is important.

Applications:

- Media enclosures
- Disposable cups
- Blending with HIPS

Complies with:

- U.S. FDA 21 CFR 177.1640
- Consult the regulation for complete details

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.04 g/cm ³	1.04 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	8.0 g/10 min	8.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, Injection Molded)	6960 psi	48.0 MPa	ASTM D638
Tensile Elongation (Break, Injection Molded)	2.0 %	2.0 %	ASTM D638
Flexural Modulus (Injection Molded)	470000 psi	3240 MPa	ASTM D790
Flexural Strength (Injection Molded)	13100 psi	90.0 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), Injection Molded	0.30 ft-lb/in	16 J/m	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed	169 °F	76.0 °C	
264 psi (1.8 MPa), Annealed	203 °F	95.0 °C	
Vicat Softening Temperature	210 °F	99.0 °C	ASTM D1525 ¹
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating ² (0.06 in (1.5 mm))	HB	HB	UL 94

Notes

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

¹ Rate B (120°C/h), Loading 1 (10 N)

² This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.

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