

STYRON™ CO2RE™ 676DI30 General Purpose Polystyrene Resin

Overview

STYRON™ CO2RE™ 676DI30 is a general purpose polystyrene containing 30% recycled polystyrene. It has a high flow and good toughness. It is designed for injection molding, cap coating and for use either pure or in a mixture with other easy flowing high impact polymers in injection molding applications. STYRON™ CO2RE™ 676DI30 GPPS has a lower carbon footprint than virgin polystyrene.

Applications:

- Thin-walled containers
- Coextrusion cap coating

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.04 g/cm ³	1.04 g/cm ³	ISO 1183
Apparent (Bulk) Density	0.60 g/cm ³	0.60 g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	11 g/10 min	11 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield)	6240 psi	43.0 MPa	ISO 527-2/5
Tensile Strain (Break)	2.0 %	2.0 %	ISO 527-2/5
Flexural Modulus	435000 psi	3000 MPa	ISO 178
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	199 °F	93.0 °C	ISO 306/A120
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating ¹ (0.06 in (1.5 mm))	HB	HB	UL 94