

Technical Information



STYRON™ 2686 MED

General Purpose Polystyrene Resin

Overview

STYRON™ 2686 MED is a general purpose resin with medium flow and good toughness, designed for injection moulding and extrusion applications. It has been tested according to ISO 10993 (biological Evaluation of Medical Devices) and is suitable for use in approved medical applications.

Applications:

- Injection moulded applications
- Thin wall containers

Complies with:

- Commission Regulation (EU) No 10/2011 and its amendments
- U.S. FDA 21 CFR 177.1640

Consult the regulations for complete details.

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)	2.5 g/10 min	2.5 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield)	7980 psi	55.0 MPa	ISO 527-2/5
Tensile Strain (Break)	2.0 %	2.0 %	ISO 527-2/5
Flexural Modulus	508000 psi	3500 MPa	ISO 178
Flexural Stress	13800 psi	95.0 MPa	ISO 178
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness	21800 psi	150 MPa	ISO 2039-1
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ISO 75-2/A
264 psi (1.8 MPa), Annealed	208 °F	98.0 °C	
Vicat Softening Temperature	225 °F	107 °C	ISO 306/A120

Notes

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

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