STYRON™ 634
General Purpose Polystyrene Resin

Overview

STYRON™ 634 is a general purpose polystyrene with an ideal combination of characteristics making it suitable for use on its own or in blends with impact polystyrene both for extrusion and injection molding.

Applications:

- Petri dishes
- Household applications
- Packaging applications

Complies with:

- Europe REGULATION (EC)10/2011
- 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/cm³	1.04	g/cm³	ISO 1183
Apparent (Bulk) Density	0.60	g/cm³	0.60	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.5	g/10 min	3.5	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Stress (Yield)	7830	psi	54.0	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	%	2.0	%	ISO 527-2/5
Flexural Modulus	493000	psi	3400	MPa	ISO 178
Flexural Stress	12300	psi	85.0	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	201	°F	94.0	°C	
Vicat Softening Temperature	216	°F	102	°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

Additional Information

Mass balance versions (bio-based (BIO) or chemically recycled (CR)) of this product are chemically and physically indistinguishable to the standard fossil grade. This technical data sheet applies to all versions. Letters of sameness are available upon request.