

Deltech PS Grade 120

General Purpose Polystyrene

Deltech Polymers Corporation

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Deltech PS Grade 120 is a General Purpose Polystyrene product. It is available in North America. Typical application: Food Contact Applications. Primary characteristic: crystalline.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
Availability	• North America
Features	• Crystal
Agency Ratings	• FDA 21 CFR 177.1640

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.05	1.05 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.8 g/10 min	1.8 g/10 min	ASTM D1238
Molding Shrinkage - Flow	3.0E-3 to 6.0E-3 in/in	0.30 to 0.60 %	ASTM D955

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	450000 psi	3100 MPa	ASTM D638
Tensile Strength (Yield)	6900 psi	47.6 MPa	ASTM D638
Tensile Elongation (Break)	2.0 %	2.0 %	ASTM D638
Flexural Modulus	480000 psi	3310 MPa	ASTM D790
Flexural Strength	12500 psi	86.2 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm)	0.40 ft·lb/in	21 J/m	ASTM D256

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (M-Scale)	75	75	ASTM D785

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	199 °F	92.8 °C	ASTM D648
Vicat Softening Temperature	224 °F	107 °C	ASTM D1525

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

