

XQ 82323.00

General Purpose Polystyrene Resins

XQ 82323.00 is a general purpose polystyrene with high flow and good clarity. The application are for Media enclosures, Refrigerator accessories and disposable cups.

Main Characteristics

- Easy processing
- Dark Blue
- UL94 HB (1.5 mm)
- FDA compliance
- * U.S. FDA 21 CFR177.1640*
- * Europe Regulation (EU) No 10/2011*

Applications

- Media enclosures
- Refrigerator accessories
- Blending with HIPS
- Disposable cups

Properties	Test Method	Unit	Typical Value
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Physical

Melt Flow Rate (200 deg C/5 kg)	ASTM D1238	g/10 min	8.5
Density	ASTM D792	g/cm ³	1.04
Mold Shrinkage	ASTM D955	in/in	0.004-0.007
UL 94 Classification @ 1.5 mm			HB

Injection Molded Properties

Mechanical

Yield, Tensile Strength	ASTM D638	psi	7100
Ultimate, Tensile Strength	ASTM D638	psi	7100
Break Elongation	ASTM D638	%	2
Flexural Strength	ASTM D790	psi	12900
Flexural Modulus	ASTM D790	psi	450000
Notched Izod @ 23 deg C	ASTM D256	ft-lb/in	0.42

Compression Molded Properties

Mechanical

Yield Tensile Strength	ASTM D638	psi	6100
Ultimate Tensile Strength	ASTM D638	psi	6100
Break Elongation	ASTM D638	%	1
Flexural Strength	ASTM D790	psi	8500
Flexural Modulus	ASTM D790	psi	450000
Notched Izod @ 23 deg C	ASTM D256	ft-lb/in	0.21

Thermal

Vicat Softening Point	ASTM D1525	deg C	99
Deflection Temperature Under Load @ 1.82 Mpa, unannealed	ASTM D648	deg C	75
Deflection Temperature Under Load @ 1.82 Mpa, annealed	ASTM D648	deg C	94
CLTE-Flow	ASTM D696	cm/cm/deg C	0.000042

Notes

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