

STYRON™ 656D

General Purpose Polystyrene Resins

STYRON™ 656D is a general purpose polystyrene with easy flow and good clarity. It is recommended for applications where a specific balance of flow and strength are important.

Main Characteristics

- Easy processing
- Light Blue
- UL94 HB
- 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
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	6900
Ultimate, Tensile Strength	ASTM D638	psi	6900
Break Elongation	ASTM D638	%	2
Flexural Strength	ASTM D790	psi	12600
Flexural Modulus	ASTM D790	psi	470000
Notched Izod @ 23 deg C	ASTM D256	ft-lb/in	0.39
Compression Molded Properties			
Mechanical			
Yield Tensile Strength	ASTM D638	psi	5900
Ultimate Tensile Strength	ASTM D638	psi	5900
Break Elongation	ASTM D638	%	1
Flexural Strength	ASTM D790	psi	8200
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	76.1
Deflection Temperature Under Load @ 1.82 Mpa, annealed	ASTM D648	deg C	95
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