

XQ 81900.00

Ignition-Resistant Polystyrene Resins

XQ 81900.00 is an ignition-resistant polystyrene resin with excellent balance of strength, toughness and flow properties for consumer electronics and information technology equipment (ITE) applications. It contains brominated flame retardant but is free from polybrominated Diphenyl Ether (PBDPE)

Main Characteristics

- Good flow
- Good toughness
- UL94 V-0

Applications

- ITE

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	1.16
Mold Shrinkage	ASTM D955	in/in	0.004-0.007
UL 94 Classification @ 1.5 mm			V-0

Injection Molded Properties

Mechanical

Yield, Tensile Strength	ASTM D638	psi	3100
Ultimate, Tensile Strength	ASTM D638	psi	2700
Break Elongation	ASTM D638	%	60
Flexural Strength	ASTM D790	psi	6000
Flexural Modulus	ASTM D790	psi	320000
Notched Izod @ 23 deg C	ASTM D256	ft-lb/in	1.2

Thermal

Vicat Softening Point	ASTM D1525	deg C	98
Deflection Temperature Under Load @ 1.82 Mpa, unannealed	ASTM D648	deg C	69
Deflection Temperature Under Load @ 1.82 Mpa, annealed	ASTM D648	deg C	90

Notes

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