

STYRON™ 6300

Ignition-Resistant Polystyrene Resins

STYRON[™] 6300 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

Applications

- Good flow

- TV

- Excellent toughness

- ITE

- UL94 V-0

Properties	Test Method	Unit	Typical Value
Physical		<u> </u>	
Melt Flow Rate (200 deg C/5 kg)	ASTM D1238	g/10 min	9.5
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	2900
Ultimate, Tensile Strength	ASTM D638	psi	2500
Break Elongation	ASTM D638	%	50
Flexural Strength	ASTM D790	psi	5500
Flexural Modulus	ASTM D790	psi	311000
Notched Izod @ 23 deg C	ASTM D256	ft-lb/in	2.3
Compression Molded Properties			
Mechanical			
Yield Tensile Strength	ASTM D638	psi	2400
Ultimate Tensile Strength	ASTM D638	psi	1800
Break Elongation	ASTM D638	%	40
Flexural Strength	ASTM D790	psi	4500
Flexural Modulus	ASTM D790	psi	244000
Notched Izod @ 23 deg C	ASTM D256	ft-lb/in	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