

# STYRON™ 6500

Ignition Resistant Polystyrene Resin

Trinseo

## Message:

STYRON™ 6500 is an ignition-resistant polystyrene resin with excellent balance of strength, heat resistance and flow properties that are tailor-made for consumer electronics applications. It is a non-deca ignition resistant polystyrene which is free from polybrominated diphenyl ether (PBDPE) and polybrominated biphenyl (PBB). It is designed for injection molding application.

Main Characteristics:

Good flow

Excellent heat resistance

UL 94 V-0 @ 1.5 mm

Applications:

LCD TV enclosures

General Information			
UL YellowCard	E73656-100134458		
Features	Bromine Free		
	Flame Retardant		
	Good Flow		
	Good Strength		
	High Heat Resistance		
Uses	Electrical/Electronic Applications		
	LCD Applications		
	Television Housings		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	17.2	MPa	
Yield, Injection Molded	20.7	MPa	
Break, Compression Molded	13.8	MPa	
Break, Injection Molded	19.3	MPa	
Tensile Elongation			ASTM D638
Break, Compression Molded	30	%	
Break, Injection Molded	40	%	
Flexural Modulus			ASTM D790
Compression Molded	1990	MPa	

Injection Molded	2370	MPa	
Flexural Strength			ASTM D790
Compression Molded	33.8	MPa	
Injection Molded	40.7	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, Compression Molded	64	J/m	
23°C, Injection Molded	80	J/m	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ASTM D1525
CLTE - Flow	7.6E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating <sup>1</sup> (1.50 mm)	V-0		UL 94
NOTE			

1.

This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.

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