

# Avantra® 8530B

High Impact Polystyrene

PMC Group Polymer Products

## Message:

Avantra® 8530B is an ignition resistant grade of high impact polystyrene with exceptional moldability. It is free of polybrominated diphenylethers and meets UL94V-0 (@ 0.062"/1.5 mm min.) rating. It gives exceptional moldability while maintaining good mechanical and heat resistance properties.

## Applications

Avantra® 8530B is best suited for gas-assist molding applications of large size electronic/electrical enclosures.

General Information			
Additive	Flame Retardant		
Features	Good Moldability		
	High Impact Resistance		
	Ignition Resistant		
	Medium Heat Resistance		
Uses	Electrical Housing		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	13	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Water Absorption			ASTM D570
Saturation	< 0.15	%	
Equilibrium, 23°C, 50%	< 0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	23.0	MPa	
Break	19.0	MPa	
Tensile Elongation (Yield)	55	%	ASTM D638
Flexural Modulus <sup>1</sup>	2070	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	120	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	75.0	°C	ASTM D648
Vicat Softening Temperature	95.0	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating <sup>2</sup>			UL 94
1.50 mm, ALL	V-0		
2.60 mm, NC	5VB		

3.00 mm, BK	5VB	
5.50 mm, ALL	5VA	
Injection	Nominal Value	Unit
Processing (Melt) Temp	200 to 240	°C
NOTE		
1.	Method I (3 point load)	
2.	Solid	

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### Recommended distributors for this material

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