

# Avantra® 8030

High Impact Polystyrene

PMC Group Polymer Products

## Message:

Avantra® 8030 is an ignition resistant, high flow, high impact polystyrene resin formulated for structural foam and large part molding. It is free of polybrominated diphenylethers and meets UL94V-0 (@ 0.062"/1.5 mm min.) rating.

## Applications:

Typical applications for Avantra® 8030 include appliance housings, business machine enclosures and electronic structural components.

General Information			
Additive	Flame Retardant		
Features	High Flow		
	High Impact Resistance		
	Ignition Resistant		
Uses	Appliance Components		
	Business Equipment		
	Electrical Parts		
	Electrical/Electronic Applications		
	Television Housings		
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)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Water Absorption			ASTM D570
Saturation, 23°C	< 0.15	%	
Equilibrium, 23°C, 50%	< 0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	24.0	MPa	
Break	20.0	MPa	
Tensile Elongation (Yield)	80	%	ASTM D638
Flexural Modulus <sup>1</sup>	2000	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	110	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	86.0	°C	ASTM D648
Vicat Softening Temperature	97.0	°C	ASTM D1525

Flammability	Nominal Value	Test Method
Flame Rating (1.50 mm, Solid)	V-0	UL 94
Injection	Nominal Value	Unit
Processing (Melt) Temp	200 to 240	°C
NOTE		
1.	Method I (3 point load)	

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