

Avantra® 8330

High Impact Polystyrene

PMC Group Polymer Products

Message:

Avantra® 8330 is a ignition resistant grade of high impact polystyrene offering unmatched heat resistance, high stiffness and thermal stability. It is free of polybrominated diphenylethers and meets UL94V-2 (0.057"-0.110"/1.45 mm - 2.8mm) rating.

Applications:

Avantra® 8330 is intended primarily for copier parts, business machine enclosures, and appliance components.

General Information			
UL YellowCard	E71210-249285		
Features	Good Thermal Stability		
	High Heat Resistance		
	High Impact Resistance		
	High Stiffness		
Uses	Appliance Components		
	Business Equipment		
	Printer Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.5	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	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	65		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	41.0	MPa	
Break	35.0	MPa	
Tensile Elongation (Yield)	13	%	ASTM D638
Flexural Modulus ¹	2760	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	69	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	97.0	°C	ASTM D648
Vicat Softening Temperature	104	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.60 mm, Natural, Black, Solid	V-2		
2.80 mm, Natural, Black, Solid	V-2		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 to 240	°C	
NOTE			
1.	Method I (3 point load)		

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