

Avantra® 8130

High Impact Polystyrene

PMC Group Polymer Products

Message:

Avantra® 8130 is a ignition resistant grade of high impact polystyrene. It is free of polybrominated diphenylethers and meets UL94V-0 ratings. It gives an excellent balance of easy processing and good mechanical properties, in particular, stiffness.

Applications:

Avantra® 8130 is primarily designed for television cabinets, business machine enclosures, and appliance components.

General Information			
UL YellowCard	E71210-249282	E71210-249283	
Additive	Flame Retardant		
Features	Good Processability		
	Good Stiffness		
	High Impact Resistance		
	Ignition Resistant		
Uses	Appliance Components		
	Business Equipment		
	Television Housings		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.5	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)	61		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	26.0	MPa	
Break	23.0	MPa	
Tensile Elongation (Yield)	70	%	ASTM D638
Flexural Modulus ¹	2210	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)	84.0	°C	ASTM D648
Vicat Softening Temperature	100	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm, All Color, Solid	V-0		
2.50 mm, Foam	V-0		
	5VB		
2.20 mm, White, Solid	5VA		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 to 240	°C	
NOTE			
1.	Method I (3 point load)		


The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT