

Avantra® 8731

High Impact Polystyrene

PMC Group Polymer Products

Message:

Avantra® 8731 is a ignition resistant grade of high impact polystyrene with. It is free of polybrominated diphenylethers and meets UL94V-0 (@ 0.062"/1.5 mm min.) rating. It exhibits excellent mechanical and heat resistance properties.

Applications

Avantra® 8731 is recommended for sheet extrusion and injection molding

General Information			
UL YellowCard	E71210-534673		
Additive	Flame Retardant		
Features	High Heat Resistance		
	High Impact Resistance		
	Ignition Resistant		
Forms	Pellets		
Processing Method	Injection Molding		
	Sheet Extrusion		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.0	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	30.0	MPa	
Break	22.0	MPa	
Tensile Elongation (Yield)	50	%	ASTM D638
Flexural Modulus ¹	2190	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	180	J/m	ASTM D256A

Flammability	Nominal Value	Test Method
Flame Rating (1.50 mm, Natural, Black, Solid)	V-0	UL 94

Injection	Nominal Value	Unit
Processing (Melt) Temp	200 to 240	°C

NOTE

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