

TOTAL Polystyrene Compound 853

Ignition Resistant Polystyrene

TOTAL Refining & Chemicals

Message:

POLYSTYRENE CPDS 853 is a flame retardant, high impact polystyrene, without chlorine and bromine FR additives rated UL94 V2 @ 1,6 mm. 853 offers excellent thermal stability and processability. This grade is specially designed for TV covers.

General Information			
UL YellowCard	E72824-254624		
Additive	Flame retardancy		
Features	Chlorine Free		
	Workability, good		
	Thermal stability, good		
	Halogen-free		
	Bromine-free		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Printing machine parts		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm³	ISO 1183
Apparent Density	0.60	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.0	g/10 min	ISO 1133
Molding Shrinkage	0.40 - 0.70	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	32.0	MPa	ISO 527-2
Tensile Strain (Break)	40	%	ISO 527-2
Flexural Modulus	2500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	7.0	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	81.0	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm, ALL)	V-2		UL 94
Additional Information			
UV Stability (color dependant), DeltaE: <3Water Absorption, ISO 62: <0.1%			

Injection	Nominal Value	Unit
Processing (Melt) Temp	250 - 280	°C

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