

TOTAL Polystyrene Compound 856

Ignition Resistant Polystyrene

TOTAL Refining & Chemicals

Message:

POLYSTYRENE CPDS 856 is a flame retardant high impact polystyrene without chlorine and bromine additives, rated UL 94 V0 @ 3mm. POLYSTYRENE CPDS 856 offers rheological and mechanical properties which permits very large mouldings. POLYSTYRENE CPDS 856 LS offers very good UV behaviour with light colors.

General Information			
UL YellowCard	E72824-249435		
Additive	Flame retardancy		
Features	Chlorine Free		
	Good UV resistance		
	Bromine-free		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183
Apparent Density	0.60	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR)			ISO 1133
200°C/10.0 kg	12	g/10 min	ISO 1133
200°C/5.0 kg	4.0	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)	35.0	MPa	ISO 527-2
Tensile Strain (Break)	40	%	ISO 527-2
Flexural Modulus	2300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	7.0	kJ/m ²	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 (3.00 mm, ALL)	V-0		UL 94
Additional Information			
Density, ISO 1183: <1.1 g/cm ³ UV Stability, ASTM D4459, color dependant: <7 delta EWater Absorption, ISO 62: <0.1%			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	250 - 280	°C	

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