

TOTAL Polystyrene Compound 820

Ignition Resistant Polystyrene

TOTAL Refining & Chemicals

Message:

POLYSTYRENE CPDS 820 is a high impact DBDPE free flame retardant polystyrene with enhanced rheological properties as well as excellent UV stability, rated UL 94 V2@ 1.6 mm.

General Information			
UL YellowCard	E72824-460739		
Additive	Flame retardancy		
Features	Good UV resistance		
	Flame retardancy		
Uses	Electrical housing		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	ISO 1183
Apparent Density	0.60	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	14	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			ISO 527-2
Yield	24.0	MPa	ISO 527-2
Fracture	18.0	MPa	ISO 527-2
Tensile Strain (Break)	45	%	ISO 527-2
Flexural Modulus	2400	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	7.5	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	87.0	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm, ALL)	V-2		UL 94
Additional Information			

Water Absorption, ISO 62: <0.1%

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