



Sicostirolo® 684

Ravago Manufacturing Europe - High Impact Polystyrene

General Information

Product Description

HIPS V0 flame retardant grade PBDE free

General

Material Status	• Commercial: Active
Availability	• Europe
Additive	• Flame Retardant
Features	• Flame Retardant

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.60	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	25.0	MPa	ISO 527-2
Tensile Stress (Break)	22.0	MPa	ISO 527-2
Tensile Strain (Break)	30	%	ISO 527-2
Flexural Modulus	2200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	8.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	81.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	90.0	°C	ISO 306/B50
--	98.0	°C	ISO 306/A50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength (1.00 mm, in Oil)	50	kV/mm	IEC 60243-1
Comparative Tracking Index	400	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.6 mm		V-0	
3.2 mm		V-0	
Glow Wire Flammability Index (2.0 mm)	960	°C	IEC 60695-2-12

Notes

¹ Typical properties: these are not to be construed as specifications.