

# Sicostirolo<sup>®</sup> 684

High Impact Polystyrene  
Prime Compound

## Description:

HIPS V0 flame retardant grade PBDE free

## General

MFI (200°C/5kg)	ISO 1133	6	g/10min
Density	ISO 1183	1.16	g/cm <sup>3</sup>
Linear mould shrinkage	ISO 2577	0.4-0.6	%

## Thermal

HDT/A (1,82MPa)	ISO 75A	81	°C
Vicat softening point (B50 (50°C/h, 50N))	ISO 306	90	°C
Vicat softening point (A50(50°C/h, 10N))	ISO 306	98	°C

## Mechanical

Tensile stress at yield	ISO 527	25	MPa
Tensile stress at break	ISO 527	22	MPa
Elongation at break	ISO 527	30	%
Flex modulus	ISO 178	2200	MPa
Izod impact (+23°C (notched))	ISO 180/1A	8	kJ/m <sup>2</sup>

## Flammability

Flammability (3,2mm)	UL94	V0	
Flammability (1,6mm)	UL94	V0	
Glow wire flammability index (2,0 mm)	IEC 60695-2-12	960	°C

## Various

Surface resistivity	IEC 60093	1.00E+15	Ohm
Volume resistivity	IEC 60093	1.00E+15	Ohm.cm
Dielectric rigidity (Oil 1mm)	IEC 60243-1	50	kV/mm
CTI	IEC 60112	400	V

## Remark:

UL94 officially approval file number: E103497

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