



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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General Information

Product Description

Styrolution PS 495N is an impact resistant polystyrene with a good balance of toughness, high flow, heat resistance and high gloss.

General

Material Status	• Commercial: Active
Features	• Food Contact Acceptable • Good Toughness
Uses	• Business Equipment
Agency Ratings	• EU 10/2011
Forms	• Granules
Processing Method	• Injection Molding

ASTM and ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	9.50	cm ³ /10min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
Water Absorption (Saturation, 23°C)	< 0.10	%	ISO 62
Water Absorption (Equilibrium, 23°C, 50% RH)	< 0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	26.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	1.5	%	ISO 527-2
Flexural Modulus	2100	MPa	ISO 178
Flexural Strength	40.0	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Tensile Elongation - MD (Break)	40	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	17	kJ/m ²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	74.0	MPa	ISO 2039-1
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Annealed)	89.0	°C	ISO 75-2/B
Heat Deflection Temperature (1.8 MPa, Annealed)	85.0	°C	ISO 75-2/A
Vicat Softening Temperature	89.0	°C	ASTM D1525 ²
Vicat Softening Temperature	98.0	°C	ISO 306/A50
CLTE - Flow	8.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.17	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+13	ohm	IEC 60093
Volume Resistivity	> 1.0E+18	ohm·cm	IEC 60093
Dielectric Constant (100 Hz)	2.50		IEC 60250

Styrolution PS 495N

Styrolution - High Impact Polystyrene

Electrical	Nominal Value	Unit	Test Method
Dissipation Factor			IEC 60250
100 Hz	4.0E-4		
1 MHz	4.0E-4		

Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Processing (Melt) Temp	180 to 260	°C

Notes

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

² Rate B (120°C/h), Loading 2 (50 N)