

Styrolution PS 153A

General Purpose Polystyrene (GPPS)

TECHNICAL DATASHEET

DESCRIPTION

Styrolution PS 153A is an antistatic modified, general purpose polystyrene grade with a good flow characteristic.

FEATURES

- Antistatic
- Good flow characteristics

APPLICATIONS

- Antistatic coextruded sheet for vending cups

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate, 200 °C/5 kg	ISO 1133	cm ³ /10 min	17
Mechanical Properties			
Tensile Stress at Yield, 23 °C	ISO 527	MPa	35
Tensile Modulus	ISO 527	MPa	3200
Nominal Strain at Break, 23 °C	ISO 527	%	1.5
Flexural Strength, 23 °C	ISO 178	MPa	55
Flexural Modulus, 23 °C	ISO 178	MPa	3200
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	85
Vicat Softening Temperature, B/1 (120 °C/h, 10N)	ASTM D 1525	°C	97
Coefficient of Linear Thermal Expansion	ISO 11359	10 ⁻⁶ /°C	80
Optical Properties			
Refractive Index, Sodium D Line	ISO 489	-	1.56
Light Transmission at 550 nm	ASTM D 1003	%	91
Haze	ASTM D 1003	%	0.3
Other Properties			
Density	ISO 1183	kg/m ³	1040
Processing			

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Property, Test Condition	Standard	Unit	Values
Melt Temperature Range	ISO 294	°C	180 - 280