

Styrolution® PS 153A

PS

INEOS Styrolution

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

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	17	cm³/10min	ISO 1133
Temperature	200	°C	-
Load	5	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3200	MPa	ISO 527
Stress at Break	50	MPa	ISO 527
Strain at Break	1.5	%	ISO 527
Impact Strength (Charpy), +23°C	8	kJ/m²	ISO 179/1eU
Flexural Modulus (23°C)	3200	MPa	ISO 178
Flexural strength	55	MPa	ISO 178

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, 50°C/h 50N	85	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	80	E-6/K	ISO 11359-1/-2
ASTM Data			
Vicat Temperature	97	°C	ASTM D 1525

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1040	kg/m³	ISO 1183

Optical Properties	Value	Unit	Test Standard
ASTM Data			
Haze	0.3	%	ASTM D 1003
Light Transmittance	91	%	ASTM D 1003

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	180 - 280	°C	-
Mold temperature	10 - 60	°C	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Melt temperature	180 - 280	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Features

Homopolymer

Delivery form

Pellets

Applications

General Purpose, Packaging

Special Characteristics

Anti-static, Transparent

Injection Molding

PROCESSING

Melt temperature, range: 180 - 280°C

Mold temperature, recommended: 40°C

Styrolution® PS 153A can be injection molded at temperatures between 180 and 280°C and recommended mold temperatures between 10 and 60 °C.