

Styrolution® PS 153F

PS

INEOS Styrolution

Styrolution® PS 153F is general purpose polystyrene with high heat resistance and good flow properties. Styrolution PS 153F is free of internal lubricants, e.g. zinc stearate.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	7.5	cm ³ /10min	ISO 1133
Temperature	200	°C	-
Load	5	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3050	MPa	ISO 527
Stress at Break	45	MPa	ISO 527
Strain at Break	1.5	%	ISO 527
Impact Strength (Charpy), +23°C	8	kJ/m ²	ISO 179/1eU
Ball Indentation Hardness	150	MPa	ISO 2039-1

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	90	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	101	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	80	E-6/K	ISO 11359-1/-2

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1040	kg/m ³	ISO 1183

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

Characteristics

Processing

Injection Molding, Other Extrusion

Features

Foamable, Low Odor, Homopolymer

Delivery form

Pellets

Applications

General Purpose

Special Characteristics

Heat aging stabilized, Transparent

Injection Molding

PROCESSING

Melt temperature, range: 180 - 280°C

Mold temperature, recommended: 40°C

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