

Styrolution® PS 156F

PS

INEOS Styrolution

Styrolution® PS 156F is a general purpose polystyrene grade with excellent flow properties, high heat resistance and is zinc stearate free.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	30	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	40	MPa	ISO 527
Strain at Break	1.5	%	ISO 527
Impact Strength (Charpy), +23°C	5	kJ/m²	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
Coeff. of Linear Therm. Expansion, parallel	90	E-6/K	ISO 11359-1/-2

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

Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Thermal Conductivity of Melt	0.16	W/(m K)	-

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 156F can be injection molded at temperatures between 180 and 280°C and recommended mold temperatures between 10 and 60 °C.