

Styrolution® PS 158L
PS

INEOS Styrolution

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	3.3	cm³/10min	ISO 1133
Temperature	200	°C	-
Load	5	kg	-
Molding shrinkage, parallel	0.5	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3300	MPa	ISO 527
Yield stress	55	MPa	ISO 527
Strain at Break	3	%	ISO 527
Tensile Creep Modulus, 1h	3300	MPa	ISO 899-1
Tensile Creep Modulus, 1000h	2600	MPa	ISO 899-1
Impact Strength (Charpy), +23°C	25	kJ/m²	ISO 179/1eU
Ball Indentation Hardness	150	MPa	ISO 2039-1

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature A	106	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	80	E-6/K	ISO 11359-1/-2
ASTM Data			
Vicat Temperature	108	°C	ASTM D 1525

Electrical Properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	2.5	-	IEC 62631-2-1
Volume Resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface Resistivity	1E14	Ohm	IEC 62631-3-2

Other Properties	Value	Unit	Test Standard
ISO Data			
Water Absorption	0.1	%	Sim. to ISO 62
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1040	kg/m³	ISO 1183

Characteristics

Processing

Injection Molding, Film Extrusion, Sheet Extrusion

Delivery form

Pellets

Special Characteristics

Heat aging stabilized, Transparent

Features

Blending Resin

Applications

General Purpose, Medical