

Styrolution® PS ESCRimo
 PS-I

INEOS Styrolution

Styrolution PS ESCRimo is a high impact polystyrene grade with an improved stress cracking resistance compared to conventional high impact polystyrene.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	3.4	cm³/10min	ISO 1133
Temperature	200	°C	-
Load	5	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1550	MPa	ISO 527
Yield stress	22	MPa	ISO 527
Yield strain	1.8	%	ISO 527
Nominal strain at break	50	%	ISO 527
Notched Impact Strength (Charpy), +23°C	15	kJ/m²	ISO 179/1eA

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, 50°C/h 50N	89	°C	ISO 306
Burning Behav. at 1.5 mm Nom. Thickn.	HB	class	UL 94
Thickness tested	1.5	mm	-
UL recognition	yes	-	-
Burning Behav. at thickness h	HB	class	UL 94
Thickness tested	3.0	mm	-
UL recognition	yes	-	-

Electrical Properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	2.5	-	IEC 62631-2-1

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

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	180 - 260	°C	-
Mold temperature	10 - 60	°C	-

Characteristics
Processing

Injection Molding, Film Extrusion, Sheet Extrusion, Thermoforming

Special Characteristics

Impact modified

Delivery form

Pellets

Injection Molding
PROCESSING

Melt temperature, range: 180 - 260°C

Although Styrolution PS ESCRimo can be processed by any method applicable to polystyrene-based plastics, it is most suitable for extrusion / thermoforming. Mass temperatures can be as high as 260°C.

Film Extrusion
PROCESSING

Flat film, Melt temperature: 200 - 240°C

Sheet Extrusion
PROCESSING

Sheets Melt temperature: 200 - 230°C