

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

Disclaimer

Liability Exclusion

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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