

Styrolution PS ESCRimo

High Impact Polystyrene
INEOS Styrolution Group GmbH

Message:

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

General Information	
UL YellowCard	E108538-100840269
Features	High ESCR (Stress Crack Resist.)
	High Impact Resistance
Uses	Liners
Forms	Granules
Processing Method	Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	3.40	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	< 0.10	%	
Equilibrium, 23°C, 50% RH	< 0.10	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1550	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	22.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	1.8	%	ISO 527-2

Films	Nominal Value	Unit	Test Method
Tensile Elongation - MD (Break)	50	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	kJ/m ²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	89.0	°C	ASTM D1525 ¹

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+13	ohms	IEC 60093
Volume Resistivity	> 1.0E+18	ohms · cm	IEC 60093
Dielectric Constant (100 Hz)	2.50		IEC 60250

Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

Extrusion	Nominal Value	Unit	
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Melt Temperature	180 to 260	°C
NOTE		

1. Rate B (120°C/h), Loading 2 (50 N)

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