

Polystyrol ESCRimo

High Impact Polystyrene

BASF Corporation

Product Description			
Polystyrol ESCRimo is a high-impact polystyrene grade with an improved stress cracking resistance compared to conventional high-impact polystyrene.			
General			
Material Status	• Commercial: Active		
Availability	• Europe		
Features	• Food Contact Acceptable	• High ESCR (Stress Crack Resist.)	• High Impact Resistance
Uses	• Food Packaging	• Liners	
Agency Ratings	• BGVO Food Contact, Unspecified Rating	• FDA Food Contact, Unspecified Rating	
RoHS Compliance	• RoHS Compliant		
Forms	• Granules		
Processing Method	• Extrusion	• Injection Molding	• Thermoforming
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	3.50	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 (23°C)	1550	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	22.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	1.8	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	50	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.0	kJ/m ²	
23°C	15	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	140	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	87.0	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+13	ohms	IEC 60093
Volume Resistivity	> 1.0E+18	ohm·cm	IEC 60093
Relative Permittivity (23°C, 100 Hz)	2.50		IEC 60250
Electric Strength (23°C)	160	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL			UL 94
1.60 mm	HB		
3.20 mm	HB		
Optical	Nominal Value	Unit	
Gloss	10.0		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 260	°C	
Mold Temperature	10.0 to 60.0	°C	
Extrusion Notes			
Plate Extrusion Melt Temperature: 200 to 230°C			
Flat Film Extrusion Melt Temperature: 200 to 240°C			

Notes

¹ Typical properties: these are not to be construed as specifications.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

备注：以上原料物性数据由IDES发布, 我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

备注：以上原料物性数据由IDES发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！