Technical Datasheet

DESCRIPTION

Styroflex® 2G66 is a styrene-butadiene block copolymer (SBC) with the properties of a thermoplastic elastomer (S-TPE) suitable for extrusion (blown and cast film) and for injection molding. Styroflex® 2G66 is also used for polymers modification and compatibilization. It is more polar than comparable SBS or SEBS grades and offers a combination of high resilience and toughness with good transparency and process stability.

FEATURES

- Excellent thermostability
- Very high elongation at break
- High resilience
- High transparency
- Regulatory compliant

APPLICATIONS

- Food packaging and films
- Stretch hood/ stretch film
- Impact modification / ESCR improvement
- Compounding, compatibilization & recycling

INEOS

STYROLUTION

Medical devices

Property, Test Condition	Standard	Unit	Values	
Rheological Properties				
Melt Volume Rate, 200 °C/5 kg	ISO 1133	cm ³ /10 min	13	
Mechanical Properties				
Charpy Notched Impact Strength, 23° C	ISO 179	kJ/m²	No Break	
Charpy Notched Impact Strength, -30° C	ISO 179	kJ/m²	2	
Charpy Unnotched, 23° C	ISO 179	kJ/m²	No Break	
Charpy Unnotched, -30° C	ISO 179	kJ/m²	No Break	
Tensile Stress at Yield, 23° C	ISO 527	MPa	4	
Tensile Strain at Yield, 23° C	ISO 527	%	5	
Tensile Modulus	ISO 527	MPa	120	
Nominal Strain at Break, 23 °C	ISO 527	%	>500	
Elongation at Break (MD)	ISO 527	%	>500	
Flexural Strength	ISO 178	MPa	4	
Flexural Modulus	ISO 178	MPa	140	
Hardness, Shore D	ISO 868	-	34	
Hardness, Shore A	ISO 868	-	84	
Elmondorf Tear (MD)		g	660	

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Styroflex 2G66

Styrene Butadiene Copolymer (SBC)

INEOS STYROLUTION

Property, Test Condition	Standard	Unit	Values	
Elmondorf Tear (TD)		g	816	
Thermal Properties				
Vicat Softening Temperature, B/1 (120°C/h, 10N)	ASTM D 1525	°C	35	
Electrical Properties				
Dielectric Constant (100 Hz)	IEC 60250	-	2.5	
Volume Resistivity	IEC 60093	Ohm*m	>1E13	
Surface Resistivity	IEC 60093	Ohm	1E15	
Optical Properties				
Refractive Index, Sodium D Line	ISO 489	-	1.565	
Light Transmission at 550 nm	ASTM D 1003	%	80	
Haze	ASTM D 1003	%	5	
Other Properties				
Density	ISO 1183	kg/m³	998	
Water Absorption, Saturated at 23°C	ISO 62	%	0.07	
Oxygen Transmission Rate (23°C/0% RH)		cc/m²/day	27.2	
Processing				
Melt Temperature Range	ISO 294	°C	170 to 240	
Mold Temperature Range	ISO 294	°C	30 to 50	

Typical values for uncolored products

SUPPLY FORM

Styroflex is supplied in pellet form and should be kept in its original containers in cool, dry place. Avoid direct exposure to sunlight. The pellets may cluster if compressed or stored at elevated temperatures; however, granule clusters are easily broken up mechanically.

PRODUCT SAFETY

During processing of Styroflex® small quantities of styrene monomer may be released into the atmosphere. At styrene vapor concentrations below 20 ppm no negative effects on health are expected. In our experience, the concentration of styrene does not exceed 1 ppm in well ventilated workplaces - that is where five to eight air changes per hour are made. For safety information please refer to our Material Safety Data Sheet for this product.

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DISCLAIMER

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