Styroflex 2G66

Styrene Butadiene Copolymer (SBC)

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
- High flow

APPLICATIONS

- Food packaging and films
- Stretch hood/ stretch film
- Impact modification / ESCR improvement
- Compounding, compatibilization, recycling
- Medical devices
- Adhesives, Soft touch injection molding; toys, 2-K inj. mold.

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate, 200 °C/5 kg	ISO 1133	cm³/10 min	13
Mechanical Properties			
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m²	2
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
Flexural Strength, 23 °C	ISO 178	MPa	4
Flexural Modulus, 23 °C	ISO 178	MPa	140
Hardness, Shore D	ISO 868	-	34
Hardness, Shore A	ISO 868	-	84
Elemendorf Tear (MD)	-	g	660
Elemendorf Tear (TD)	-	g	816
Thermal Properties			
Vicat Softening Temperature, B/1 (120 °C/h, 10N)	ASTM D 1525	°C	35

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Property, Test Condition	Standard	Unit	Values
Electrical Properties			
Dielectric Constant (100 Hz)	IEC 62631-2-1	-	2.5
Volume Resistivity	IEC 62631-3-1	Ohm*m	$>10^{13}$
Surface Resistivity	IEC 62631-3-1	Ohm	10^{15}
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

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.

DISCLAIMER

The aforementioned data shall constitute the agreed contractual quality of the product sold by INEOS Styrolution at the time of passing of risk. INEOS Styrolution does not make any further warranty, representation or guarantee of any kind, express or implied, regarding the suitability of the product for any particular purpose or application and INEOS Styrolution disclaims all liability in connection therewith. The customer himself is required to verify whether or not the product is suitable for the further processing or application intended and whether or not the product complies with the relevant statutory requirements. Unless explicitly and individually otherwise agreed in writing, INEOS Styrolution's sole and exclusive liability with respect to its products is set forth in INEOS Styrolution's General Terms and Conditions for Sale.

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