

# 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	cm <sup>3</sup> /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, 23 °C	ISO 178	MPa	4
Flexural Modulus, 23 °C	ISO 178	MPa	140
Hardness, Shore D	ISO 868	-	34

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Standard	Unit	Values
ISO 868	<u>-</u>	84
	g	660
	g	816
ASTM D 1525	°C	35
IEC 60250	-	2.5
IEC 60093	Ohm*m	>1E13
IEC 60093	Ohm	1E15
ISO 489	-	1.565
ASTM D 1003	%	80
ASTM D 1003	%	5
ISO 1183	kg/m³	998
ISO 62	%	0.07
	cc/m²/day	27.2
ISO 294	°C	170 to 240
ISO 294	°C	30 to 50
	ISO 868  ASTM D 1525  IEC 60250 IEC 60093 IEC 60093 ISO 489 ASTM D 1003 ASTM D 1003 ISO 1183 ISO 62	ISO 868 -  9  ASTM D 1525 °C  IEC 60250 -  IEC 60093 Ohm*m  IEC 60093 Ohm  ISO 489 -  ASTM D 1003 %  ASTM D 1003 %  ISO 1183 kg/m³  ISO 62 %  cc/m²/day

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.



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## **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**

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