

Styroflex 2G66 LE

Styrene Butadiene Copolymer (SBC)

TECHNICAL DATASHEET

DESCRIPTION

Styroflex® 2G66 LE 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 LE is a grade with reduced residuals to achieve improved VOC levels for demanding applications. It can be used for polymer 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 ³ /10 min	13
Mechanical Properties			
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m ²	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
Elmendorf Tear (MD)	-	g	660
Elmendorf Tear (TD)	-	g	816
Thermal Properties			
Vicat Softening Temperature, B/1 (120 °C/h, 10N)	ASTM D 1525	°C	35

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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/m ³	998
Water Absorption, Saturated at 23 °C	ISO 62	%	0.07
Oxygen Transmission Rate (23 °C/0% RH)	-	cc/m ² /day	27.2