

# Lifoflex® GA 1090

Styrene Ethylene Butylene Styrene Block Copolymer

Müller Kunststoffe GmbH

## Message:

The series GA, GB and GC are TPE compounds based on SEBS. They are suited for a lot of different applications and are characterized by an easy processing and high fl exibility.

### Properties:

- shore hardness: 20 - 90 Shore A
- different densities: 0,89 - 1,21 g/ccm
- translucent, nature colored or direct pigmented materials possible
- resistant against aqueous solutions, inorganic acids and bases
- physiologically harmless
- easy processing in injection molding
- good adhesion on PP/PE
- very good mechanical properties
- service temperature range from -40°C up to 100°C
- high fl exibility
- UV resistant (suitable for outdoor use)
- applications with food contact are possible
- in conformity with FDA, 10/2011/EC and EN 71/3 (toys)
- in conformity with European directives 2002/95/EC (RoHS) and 2003/11/EC
- recyclable

### Applications:

- consumer/household:
  - sealings for food storage boxes
  - soft-touch surfaces for packaging
  - 2-component grips for kitchen equipment
- toys:
  - soft seats for sledge
  - wheels for toy cars
  - toy characters
- electronics:
  - sealings for housings
  - soft touch coating for housings
- sports and leisure:
  - bicycle grips
  - soft-touch grips for hiking and nordic walking sticks
- fins
- health care:
  - grips for toothbrushes
  - sealings and closures for packaging
  - anti-slip grips for baby tableware

General Information	
Features	Acid Resistant
	Base Resistant
	Food Contact Acceptable
	Good Adhesion
	Good Colorability
	Good Flexibility
	Good Processability
	Good UV Resistance

Low Toxicity  
Recyclable Material

Uses	Closures
	Consumer Applications
	Electrical/Electronic Applications
	Flexible Grips
	Household Goods
	Medical/Healthcare Applications
	Outdoor Applications
	Seals
	Seats
	Soft Touch Applications
	Sporting Goods
	Toothbrush Handles
	Toys
	Wheels

Agency Ratings	EN 71-3
	EU 2003/11/EC
	EU No 10/2011
	FDA Unspecified Rating

RoHS Compliance	RoHS Compliant
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Appearance	Clear/Transparent
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Physical	Nominal Value	Unit	Test Method
Density	0.890	g/cm <sup>3</sup>	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 3 sec)	90		DIN 53505
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Flow (Yield)	15.8	MPa	DIN 53504
Tensile Elongation - Flow (Break)	720	%	DIN 53504
Compression Set			ISO 815
23°C, 72 hr	41	%	
70°C, 22 hr	61	%	
100°C, 24 hr	76	%	

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