

Styroflex 4G80

Styrene Butadiene Copolymer (SBC)

TECHNICAL DATASHEET

DESCRIPTION

Styroflex® 4G80 is a styrene butadiene block copolymer (SBC) optimized for extrusion.

FEATURES

- Good kink resistance
- Good transparency
- Good solvent bonding
- Soft feel surface

APPLICATIONS

- Tubing for medical devices
- Grips for tools or sports equipment

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 220 °C/10 kg	ASTM D 1238	g/10 min	76
Melt Flow Rate, 200 °C/5 kg	ASTM D 1238	g/10 min	15
Mechanical Properties			
Tensile Modulus	ASTM D 638	psi x 10 ³	10
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	350
Tensile Strain at Break, 23 °C	ASTM D 638	%	> 500
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	> 14
Hardness, Shore A	ASTM D 2240	-	80
Hardness, Shore D	ASTM D 2240	-	28
Thermal Properties			
Vicat Softening Temperature, B/1 (120 °C/h, 10N)	ASTM D 1525	°F	103
Optical Properties			
Haze	ASTM D 1003	%	28
Light Transmission at 550 nm	ASTM D 1003	%	77
Refractive Index, Sodium D Line	ASTM D 542	-	1.56
Other Properties			
Density (ASTM)	ASTM D 792	g/cm ³	0.98

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Property, Test Condition	Standard	Unit	Values
Water Absorption, Saturated at 23 °C	ASTM D 570	%	0.07
Processing			
Linear Mold Shrinkage	ASTM D 955	in/in	0.003 - 0.01
Melt Temperature Range	-	°F	338 - 464
Mold Temperature Range	-	°F	85 - 110