

# raplan® K 70

Styrene Butadiene Styrene Block Copolymer

API SpA

Message:

raplan® K 70 is a styrene-butadiene-styrene block copolymer (SBS) product. It can be processed by extrusion or injection molding and is available in Europe. Typical application areas are: medical/health care. The main characteristics are: copolymer.

General Information	
Features	Block Copolymer
Uses	Medical/nursing supplies
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.970	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 2.0	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	70		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ASTM D638
100% secant	2.50	MPa	ASTM D638
300% secant	4.50	MPa	ASTM D638
Tensile Strength	10.0	MPa	ASTM D638
Tensile Elongation (Break)	800	%	ASTM D638

Elastomers	Nominal Value	Unit	Test Method
Tear Strength	60.0	kN/m	ASTM D624

Injection	Nominal Value	Unit
Rear Temperature	150	°C
Middle Temperature	170	°C
Front Temperature	170	°C
Nozzle Temperature	180	°C
Mold Temperature	20.0 - 40.0	°C
Injection Rate	Moderate	

Injection instructions
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Injection Pressure: Medium to HighBack Pressure: Low to MediumLocking Pressure: Medium to High

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	150	°C
Cylinder Zone 2 Temp.	160	°C

Cylinder Zone 3 Temp.	160	°C
Cylinder Zone 4 Temp.	170	°C
Extrusion instructions		

L/D Ratio: 20/28 Compression Ratio: 1:2.5 to 1:2.8

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

