

raplan® HB 60-840

Styrene Butadiene Styrene Block Copolymer

API SpA

Message:

raplan®HB 60-840 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: consumer goods. The main characteristics are: copolymer.

General Information			
Features	Block Copolymer		
Uses	Footwear		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.930	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	50	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)	60		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	7.40	MPa	ASTM D638
Tensile Elongation (Break)	800	%	ASTM D638

Elastomers	Nominal Value	Unit	Test Method
Tear Strength	31.0	kN/m	ASTM D624

| Additional Information | | | |
| Abrasion Resistance, DIN 53516: 180 mm³ | | | |

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 | | |
| 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
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Extrusion instructions

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

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