

VECTOR® 4111

Styrene Isoprene Styrene Block Copolymer

Dexco Polymers LP

Message:

VECTOR® 4111 is a Styrene Isoprene Styrene Block Copolymer (SIS) product. It can be processed by blow molding, extrusion, or injection molding and is available in North America. Typical application: Food Contact Applications. Primary characteristic: copolymer.

General Information	
Features	Copolymer
Agency Ratings	FDA Food Contact, Unspecified Rating
Forms	Pellets
Processing Method	Blow Molding
	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.928	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.2 to 1.4	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	38		ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	1.90	MPa	ASTM D412
Tensile Strength (Yield)	29.0	MPa	ASTM D412
Tensile Elongation (Break)	1200	%	ASTM D412

Injection	Nominal Value	Unit
Processing (Melt) Temp	149 to 204	°C
Mold Temperature	10.0 to 40.6	°C
Injection Pressure	34.5 to 138	MPa
Injection Rate	Slow-Moderate	
Back Pressure	0.345 to 0.689	MPa
Screw Speed	25 to 75	rpm
Clamp Tonnage	2.1 to 4.1	kN/cm ²
Screw Compression Ratio	2.0:1.0 to 3.0:1.0	

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