

Dryflex® A1 90A301N

Styrene Ethylene Butylene Styrene Block Copolymer

ELASTO

Message:

Dryflex A1 90A301N: Thermoplastic Elastomer

Material Type: TPS-SEBS

Hardness: 90 Shore A (4mm)

Service Temperature Range: -50 -- +125 °C (unstressed material)

Colour: Natural, but can be available in any colour.

Presentation: Free flowing pellets that can be processed without predrying, when stored under normal conditions.

Weather Resistance: Excellent

Chemical Resistance: Good (excluding organic solvents, aromatic- and vegetable oils)

Recyclability: 100% recyclable

The material is modified to give good adhesion to PA

General Information			
Features	Recyclable materials		
	Workability, good		
	Good coloring		
	Good adhesion		
	Good chemical resistance		
	Good weather resistance		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	23	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 4.00 mm)	90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ASTM D638
100% secant	6.00	MPa	ASTM D638
300% secant	9.00	MPa	ASTM D638
Tensile Strength	12.0	MPa	ASTM D638
Tensile Elongation (Break)	510	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	57.0	kN/m	ASTM D624

Thermal	Nominal Value	Unit
Service Temperature - Unstressed Material	-50 - 125	°C
Injection	Nominal Value	Unit
Rear Temperature	180 - 250	°C
Middle Temperature	180 - 250	°C
Front Temperature	180 - 250	°C
Mold Temperature	30.0 - 60.0	°C
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	150 - 250	°C
Cylinder Zone 2 Temp.	150 - 250	°C
Cylinder Zone 3 Temp.	150 - 250	°C
Cylinder Zone 4 Temp.	150 - 250	°C
Cylinder Zone 5 Temp.	150 - 250	°C

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