

# Dryflex® SE 80A301N U

Styrene Ethylene Butylene Styrene Block Copolymer

ELASTO

## Message:

Dryflex SE 80A301N U: Thermoplastic Elastomer

Base Material: TPS-SEBS

Hardness: 80 Shore A

Service Temperature: -50 to +125°C (Unstressed Material).

Colour: Natural, but available in any colour shade

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

Weather Resistance: Excellent

Ozone-/UV- Resistance: Excellent

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

Recycling: 100% recyclable

Mould Shrinkage (linear): Approx. 0.75 - 2% depending on e.g. shape of the detail and placement of gate

Bonds to: PP, PE

General Information			
Features	Good UV resistance		
	Recyclable materials		
	Workability, good		
	Ozone resistance		
	Good chemical resistance		
	Good weather resistance		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm <sup>3</sup>	ISO 2781
Molding Shrinkage	0.75 - 2.0	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	80		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow			ISO 37
100% strain	2.70	MPa	ISO 37
300% strain	3.60	MPa	ISO 37
Tensile Stress - Across Flow (Yield)	8.80	MPa	ISO 37
Tensile Elongation - Across Flow (Break)	760	%	ISO 37
Tear Strength - Across Flow <sup>1</sup>	31	kN/m	ISO 34-1
Compression Set <sup>2</sup>			ISO 815
23°C, 72 hr	37	%	ISO 815

70°C, 22 hr	51	%	ISO 815
100°C, 22 hr	71	%	ISO 815
Thermal	Nominal Value	Unit	
Service Temperature	-50 - 125	°C	
Injection	Nominal Value	Unit	
Rear Temperature	180 - 210	°C	
Middle Temperature	180 - 210	°C	
Front Temperature	180 - 210	°C	
Mold Temperature	15 - 50	°C	
NOTE			
1.	C method: crescent sample		
2.	Type B		

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#### Recommended distributors for this material

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