

Dryflex® 51331 SE

Styrene Ethylene Butylene Styrene Block Copolymer

ELASTO

Message:

Dryflex 51331 SE: Thermoplastic Elastomer
Base Material: TPS-SEBS
Hardness: 50 Shore A
Service Temperature Range: -50 to +125°C (Unstressed Material).
Colour: Natural
Presentation: Free flowing pellets that can be processed without predrying when stored under normal conditions
Weather Resistance: Excellent
Ozone / UV Resistance: Excellent
Chemical Resistance: Moderate (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		
	Good chemical resistance		
	Good weather resistance		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 2781
Molding Shrinkage	0.75 - 2.0	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	50		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	1.80	MPa	ISO 37
Tensile Stress (Break)	5.10	MPa	ISO 37
Tensile Elongation (Break)	740	%	ISO 37
Tear Strength ¹	21	kN/m	ISO 34-1
Thermal	Nominal Value	Unit	
Service Temperature ²	-50 - 125	°C	
Injection	Nominal Value	Unit	
Rear Temperature	180 - 210	°C	
Middle Temperature	180 - 210	°C	

Front Temperature	180 - 210	°C
Mold Temperature	15.0 - 40.0	°C
Injection instructions		
Can be processed without predrying when stored under normal conditions.		
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	150 - 210	°C
Cylinder Zone 2 Temp.	150 - 210	°C
Cylinder Zone 3 Temp.	150 - 210	°C
Cylinder Zone 4 Temp.	150 - 210	°C
Cylinder Zone 5 Temp.	150 - 210	°C
NOTE		
1.	C method: crescent sample	
2.	Unstressed material	

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