

# Dryflex® SE 50A301

Thermoplastic Elastomer

ELASTO

## Message:

Dryflex SE is our standard TPE range. It is extremely adaptable and can be used advantageously in many applications. The compounds are easy to process and are optimised for injection moulding.

We have developed endless formulations to fulfil different properties and application requirements to optimise the finished component. Grades with improved compression set properties, high temperature resistance or more cost efficient values are an essential part of today's wide product spectrum. The most significant features of the Dryflex SE filled series are an improved heat stability. A filled material reduces the stickiness and sink marks on thick details but has limited scratch resistance. The filled grades generally allow for fast demoulding and shorter cycle times.

Compounds in the Dryflex SE filled series are available in hardness from 30 to 90 Shore A in natural and black colours but they can easily be coloured.

General Information			
Filler / Reinforcement	Filler		
Features	Good Heat Resistance		
	High Flexibility		
	Recyclable materials		
	Workability, good		
	Fast molding cycle		
	Good coloring		
	Compliance of Food Exposure		
Uses	Handle		
	Packaging		
	Application in Automobile Field		
	Soft handle		
	Sporting goods		
	Shell		
	Toys		
Agency Ratings	European 2003/11/EC		
RoHS Compliance	RoHS compliance		
Appearance	Black		
	Natural color		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm <sup>3</sup>	ISO 2781
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	50		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow			ISO 37

100% strain	1.20	MPa	ISO 37
300% strain	1.80	MPa	ISO 37
Tensile Stress - Across Flow (Break)	6.00	MPa	ISO 37
Tensile Elongation - Across Flow (Break)	860	%	ISO 37
Tear Strength <sup>1</sup>	19	kN/m	ISO 34-1
Compression Set <sup>2</sup>			ISO 815
23°C, 72 hr	18	%	ISO 815
70°C, 22 hr	34	%	ISO 815
100°C, 22 hr	68	%	ISO 815

Injection	Nominal Value	Unit
Drying Temperature	80	°C
Drying Time	2.0 - 3.0	hr
Rear Temperature	170 - 190	°C
Middle Temperature	180 - 200	°C
Front Temperature	190 - 210	°C
Nozzle Temperature	200 - 220	°C
Mold Temperature	15 - 50	°C
Injection Rate	Moderate-Fast	

#### NOTE

1. C method: crescent sample
2. Type B

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#### Recommended distributors for this material

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