Dryflex® SE 90A001

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 Dryflex SE unfilled series is favourable when translucency and good scratch resistance are required, as well as when there are high surface finish requirements. The material enables an easy and secure pigmenting. Unfilled grades have excellent flow and mechanical properties. The low density results in lower weight compared to the filled and semi-filled series.
Dryflex SE unfilled compounds are available in hardness from 30 to 90 Shore A in natural and black colours but they can easily be coloured.

General Information	
Features	High Flexibility
	Recyclable materials
	Workability, good
	Good liquidity
	Good coloring
	Scratch resistance
	Compliance of Food Exposure
	Excellent appearance
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	0.890	g/cm³	ISO 2781

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	90		ISO 868

Elastomers	Nominal Value	Unit	Test Method

Tensile Stress - Across Flow			ISO 37
100% strain	4.90	MPa	ISO 37
300% strain	6.00	MPa	ISO 37
Tensile Stress - Across Flow (Break)	15.2	MPa	ISO 37
Tensile Elongation - Across Flow (Break)	750	%	ISO 37
Tear Strength [1]	51	kN/m	ISO 34-1
Compression Set [2]			ISO 815
23°C, 72 hr	41	%	ISO 815
70°C, 22 hr	61	%	ISO 815
100°C, 22 hr	76	%	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

Recommended distributors for this material

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