Dryflex® SE 85A201

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 semi-filled series is recommended when the properties of the produced detail requires the advantages of the unfilled series in combination with the filled series. A semi-filled material can therefore combine the advantages of the other two series. The material has good flow and mechanical properties as well as reasonable scratch resistance.
Compounds in the Dryflex SE semi-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	High Flexibility Recyclable materials Workability, good Good liquidity Good coloring Scratch resistance 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	1.00	g/cm³	ISO 2781
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 15 sec)	85		ISO 868
Elastomers	**Nominal Value**	**Unit**	**Test Method**

Tensile Stress - Across Flow			ISO 37
100% strain	3.70	MPa	ISO 37
300% strain	4.70	MPa	ISO 37
Tensile Stress - Across Flow (Break)	12.3	MPa	ISO 37
Tensile Elongation - Across Flow (Break)	780	%	ISO 37
Tear Strength [1]	37	kN/m	ISO 34-1
Compression Set [2]			ISO 815
23°C, 72 hr	39	%	ISO 815
70°C, 22 hr	53	%	ISO 815
100°C, 22 hr	74	%	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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