

Dryflex® A2 602450

Styrene Ethylene Butylene Styrene Block Copolymer

ELASTO

Message:

Dryflex A thermoplastic elastomer (TPE) bondable grades, primarily based on SBS and SEBS, increase freedom of design and open up a vast range of application opportunities.

It used to be a complex and costly affair producing details made of thermoplastics that showed soft-touch qualities or had integrated seals. With Dryflex A TPEs, since the materials are bonded together at the production stage, no separate primer or adhesive is needed. This makes the process faster and more cost-effective than if the two parts were assembled together after each had been produced separately, or bonded mechanically, which often requires some modification to the design.

Primarily a TPE is used as the soft component. Dryflex A bondable grades can be co-extruded or overmoulded with a variety of engineering plastics. Dryflex A grades are available in black or natural and can easily be coloured. These thermoplastic elastomers form excellent bonds onto PP, PE, PA, ABS, PC, PS, PMMA, ASA, SAN and their blends. Polyamides and ABS may be either reinforced or non-reinforced yet still bond extremely well to Dryflex. It is easy to achieve excellent bonding to PP, even using standard TPE materials, while other thermoplastics require some modification of the TPE material to optimise bonding.

General Information			
Features	Adhesiveness		
	Good chemical resistance		
	Good weather resistance		
Appearance	Black		
	Available colors		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 4.00 mm)	45		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
--	3.00	MPa	ASTM D638
100% strain	1.00	MPa	ASTM D638
300% strain	2.50	MPa	ASTM D638
Tensile Elongation (Break)	400	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	22.0	kN/m	ASTM D624
Thermal	Nominal Value	Unit	
Service Temperature	-50 - 125	°C	

Peel Force ¹	> 3.0	kN/m	ASTM D903
Additional Information	Nominal Value	Unit	Test Method
This material is modified to give good adhesion/bondability to ABS, PC, PC/ABS, PMMA, SAN, ASA			
Injection	Nominal Value	Unit	
Rear Temperature	180 - 190	°C	
Middle Temperature	180 - 190	°C	
Front Temperature	180 - 190	°C	
Mold Temperature	60.0	°C	
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180 - 190	°C	
Cylinder Zone 2 Temp.	180 - 190	°C	
Cylinder Zone 3 Temp.	180 - 190	°C	
Cylinder Zone 4 Temp.	180 - 190	°C	
Cylinder Zone 5 Temp.	180 - 190	°C	
NOTE			

1. Tests conducted on overmoulded test specimens, 2.5mm thick with a 90° peel angle

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

