Dryflex® A2 662502

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	Good UV resistance Adhesiveness Good chemical resistance Compliance of Food Exposure
Appearance	Black
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 4.00 mm)	50		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
--	4.00	MPa	ASTM D638
100% strain	1.50	MPa	ASTM D638
300% strain	2.50	MPa	ASTM D638
Tensile Elongation (Break)	600	%	ASTM D638
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength	21.0	kN/m	ASTM D624
Thermal	**Nominal Value**		
Service Temperature	-50 - 125		
Peel Force [1]	Cohesive		ASTM D903

Additional Information	Nominal Value	Test Method
The material has good adhesion to PC/ABS, ABS and PC.		

Injection	Nominal Value	Unit
Rear Temperature	220 - 240	°C
Middle Temperature	220 - 240	°C
Front Temperature	220 - 240	°C
Mold Temperature	60.0	°C

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	220 - 240	°C
Cylinder Zone 2 Temp.	220 - 240	°C
Cylinder Zone 3 Temp.	220 - 240	°C
Cylinder Zone 4 Temp.	220 - 240	°C
Cylinder Zone 5 Temp.	220 - 240	°C

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

Recommended distributors for this material

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