



Elastoflex[®] AP 40

Elastoflex[®] AP40 is an Aramid fiber masterbatch in Elastomers and processing aid carrier which contains 40% Aramid fiber content. There are two colors, black color (Elastoflex[®] AP40B) and yellow color (Elastoflex[®] AP40N).

BENEFIT

The high strength of Aramid fiber gives excellent reinforcing performance in rubber compounds. With the superb mixing technology and long experienced in rubber compounds formulation design of Innovation Group, the Elastoflex[®] AP40 is mixed and designed to give good dispersion, improve mixing and moulding process of the final compounds.



APPLICATION



Manufacturing by - PI Industry Ltd.

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Elastoflex[®] AP40 Processing Guidance

Natural Rubber

Nitrile Rubber

**Ethylene Propylene
Diene Rubber**

**Chloroprene
Rubber**

Adding Elastoflex[®] AP40 in the same step of adding polymers. Other steps can be used as normal practices of current compound mixing steps.

As Elastoflex[®] AP40 contains low quantity of elastomer so no need to reduce rubber content in the formulation.

NR

Formulation	No aramid	Aramid 3 phr
Elastoflex AP40	-	7.5
Other Ingredients CB/Silica Filler System	Same	Same

Test Results	Test Method	No aramid	Aramid 3 phr
Hardness, Shore A	JIS K6253	72	75
Tensile strength, kgf/cm ²	JIS K6251	270	238
Elongation, %	JIS K6251	545	510
M100, kgf/cm ²	JIS K6251	25	26
M200, kgf/cm ²	JIS K6251	38	42
M300, kgf/cm ²	JIS K6251	81	83
M400, kgf/cm ²	JIS K6251	135	134
Tear strength, kgf/cm	JIS K6252	73	80
SG	JIS K6268	1.178	1.177

NBR

Formulation	No aramid	Aramid 3 phr
Elastoflex AP40	-	7.5
Other Ingredients Silica Filler System	Same	Same

Test Results	Test Method	No aramid	Aramid 3 phr
Hardness, Shore A	JIS K6253	80	83
Tensile strength, kgf/cm ²	JIS K6251	348	279
Elongation, %	JIS K6251	620	505
M100, kgf/cm ²	JIS K6251	33	45
M200, kgf/cm ²	JIS K6251	45	91
M300, kgf/cm ²	JIS K6251	96	127
M400, kgf/cm ²	JIS K6251	157	172
Tear strength, kgf/cm	JIS K6252	78	92
SG	JIS K6268	1.254	1.253

EPDM

Formulation	No aramid	Aramid 3 phr
Elastoflex AP40	-	7.5
Other Ingredients CB Filler System	Same	Same

Test Results	Test Method	No aramid	Aramid 3 phr
Hardness, Shore A	JIS K6253	76	81
Tensile strength, kgf/cm ²	JIS K6251	163	163
Elongation, %	JIS K6251	260	230
M100, kgf/cm ²	JIS K6251	34	80
M200, kgf/cm ²	JIS K6251	66	94
M300, kgf/cm ²	JIS K6251	131	147
Tear strength, kgf/cm	JIS K6252	60	60
SG	JIS K6268	1.099	1.098

CR

Formulation	No aramid	Aramid 3 phr
Elastoflex AP40	-	7.5
Other Ingredients CB Filler System	Same	Same

Test Results	Test Method	No aramid	Aramid 3 phr
Hardness, Shore A	JIS K6253	69	74
Tensile strength, kgf/cm ²	JIS K6251	237	201
Elongation, %	JIS K6251	350	280
M100, kgf/cm ²	JIS K6251	23	77
M200, kgf/cm ²	JIS K6251	43	90
M300, kgf/cm ²	JIS K6251	119	141
M400, kgf/cm ²	JIS K6251	204	-
Tear strength, kgf/cm	JIS K6252	60	60
SG	JIS K6268	1.390	1.381