

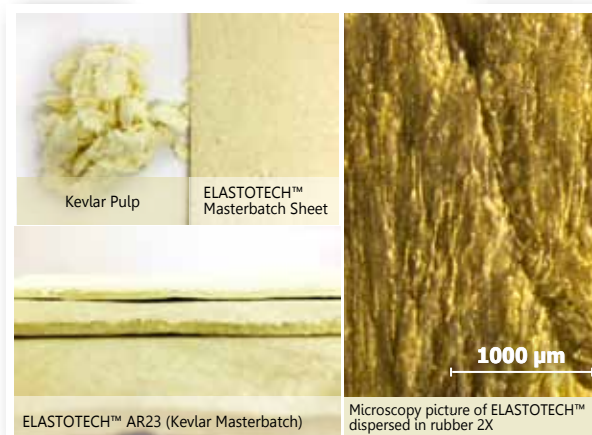


ELASTOTECH™ AR23

is an Aramid fiber in Natural Rubber and processing aid carrier which contain 23%. ELASTOTECH™ AR23 available in a family of rubber matrices such as NR, BR and SBR.

ELASTOTECH™ reinforces unique properties than conventional fillers such as carbon black and silica by increasing stiffness (modulus) with little or no change in hysteresis that can lead to heat build-up. Field-use performance in a range of applications has demonstrated improvements in modulus, cut and tear resistance, wear and creep resistance.

Benefit of Aramid fiber masterbatch



Increase hardness
via balance elastomeric
property.

Increase modulus
especially at low %
elongation so can improve
high loading, high pressure
resistance at
low elongation.

Increase tear strength
so can stop cut growth.

Reduce heat build up
in rubber compound.

Easy to disperse.



☑ Easy to disperse

ELASTOTECH™ is pre-dispersed in a rubber matrix, making it easy to disperse using common mixers in rubber compound manufacturing facilities.

☑ Improved wear and rolling resistance

Adding ELASTOTECH™ 1-5 phr. can improve wear and rolling resistance on tread tires.

☑ Conveying cost savings

ELASTOTECH™ products incorporate into top and bottom belt covers can help companies save cost of maintenance per year.

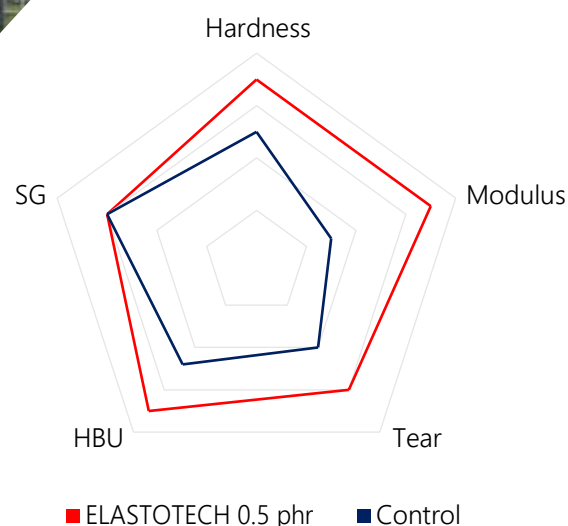
Formulation:

Formulation	No Aramid	Aramid 0.5 phr	Aramid 1 phr	*Aramid 1 phr
NR	75	75	75	75
BR	25	25	25	25
ELASTOFLEX AR23	0	2.17	4.34	4.34
Silica	25	25	25	23
Carbon black	35	35	35	35
Aromatic oil	5	5	5	5
Anti-Ozonant	4	4	4	4
Zno	5	5	5	5
Stearic acid	2	2	2	2
CBS	1.5	1.5	1.5	1.5
Sulphur powder	2	2	2	2
Total PHR	179.50	181.67	183.84	181.84

Property at Machine Direction:

Test Results	Test Method	No Aramid	Aramid 0.5 phr	Aramid 1 phr	*Aramid 1 phr
Hardness (Shore A)	JIS K6253	60	61	62	61
Tensile strength (MPa)	JIS K6251	28	26	26	25
Elongation (%)	JIS K6251	655	610	585	605
50% Modulus (MPa)	JIS K6251	2.4	2.6	2.8	2.8
100% Modulus (MPa)	JIS K6251	3.3	3.6	3.9	3.8
Tear strength (kgf/cm)	JIS K6252	104	118	112	120
SG	JIS K6268	1.156	1.150	1.152	1.148
Heat Build Up	ASTM D623	38.7	36.1	36.7	34.0
Tanδ @60°C		0.185	0.178	0.188	0.153

Note: * Adjust hardness by reduce silica.



Contact:

Tel: (66) 2 375-5197
Fax: (66) 2 375-6503
E-mail: noppakoonl@cheminno.co.th
webmaster@elastomer-polymer.com
Website: www.cheminno.co.th

Distribute by:

Chemical Innovation Co., Ltd.
18 Soi Ramkamhaeng 30 (Ban Rao), Hua Mak,
Bang Kapi, Bangkok 10240, Thailand.

Manufacture by:

PI Industry Ltd.
20 Soi Ramkamhaeng 30 (Ban Rao), Hua Mak,
Bang Kapi, Bangkok 10240, Thailand.