

## Flexibilizer

Toughener KT-913 is the elastomer of maleic anhydride grafted polyolefin, which is mainly used for toughening and strengthening PA6(abbreviated herein as polyamide),PA66, PA6, or PA66 mixed with retardant.It can improve nylon impact, formation, processability, and reduce the absorption water rate.It has better low-temperature resistance.

### Product Specification

Product No.	Melt Flow Rate(MFR) (190℃,2.16kg,g/10min)	Grafted Rate(%)	Density(g/m <sup>3</sup> )	Substrate	Color
KT-913	1.4	High	0.86	Elastomer	White

### Performance Comparison

#### PA6 Test Data

Test Item	Standard	67%PA6+30%GF+3%Toughener				65%PA6+30%GF+5%Toughener			
		N493D	KT-913	KT-915	KT-916K	N493D	KT-913	KT-915	KT-916K
Tensile MPa	GB/T1040	159	159	160	159	151	153	151	151
Elongation at break %	GB/T1040	4.5	4.7	5.0	4.9	5.2	5.2	4.9	5.2
Flexural MPa	GB/T9341	241	246	247	242	231	237	231	233
Flexural modulus GPa	GB/T9341	9.1	9.5	9.4	9.2	9.1	9.3	9.2	9.1
Impact KJ/m2	GB/T1843	22.6	22.2	22.6	23.1	26.0	25.8	25.5	25.6
Impact KJ/m2	-30℃	15.6	16.4	15.9	16.8	17.7	17.3	18.3	17.7
Impact KJ/m2	-50℃	15.3	14.8	15.8	15.8	16.8	17.0	16.1	16.5
PA6 Melt Rate g/10min	230℃ 2.16Kg	1.7	1.8	1.7	2.2	1.5	1.6	1.6	1.8

#### PA66 Test Data

Test Item	Standard	67%PA66+30%GF+3%Toughener				65%PA66+30%GF+5%Toughener			
		N493D	KT-913	KT-915	KT-916K	N493D	KT-913	KT-915	KT-916K
Tensile MPa	GB/T1040	167	170	172	170	162	162	158	158
Elongation at break %	GB/T1040	4.4	4.1	4.1	4.0	3.6	4.3	4.2	4.5
Flexural MPa	GB/T9341	240	250	252	251	236	243	235	239
Flexural Modulus GPa	GB/T9341	8.4	9.0	8.9	9.0	8.6	8.9	8.5	8.7
Impact KJ/m2	GB/T1843	18.1	17.7	16.9	17.3	20.7	20.2	19.9	19.7
Impact KJ/m2	-30℃	12.5	12.0	11.6	11.6	14.2	13.8	12.4	13.0
Impact KJ/m2	-50℃	11.2	11.1	11.6	12.4	13.4	13.3	12.9	12.7
PA66 Melt Rate g/10min	275℃ 2.16Kg	9.7	9.4	9.7	10.4	9.1	9.1	10.2	8.2

### Dosage

Adding 3%-5% of the product plays an obvious role in the toughness and strength.

### Packing, Storage And Transportation

The product is packed in 25Kg kraft paper bag lined with a plastic bag.

According to the requirement of non-dangerous goods, it is stored and transported under dry conditions to avoid sunlight and rain.