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## CALVIN KA-103

### Nylon Impact Modifier

**Characterization** KA-103 is a general purpose impact modifier for PA6/PA66, providing an excellent impact resistance, which is transparent granule.

**Applications** KA-103 is an additive aimed to improve the impact strength of nylon, especially recommended to be used in PA with GF. It suits well in auto radiator, camera tripod, safety shoe, cooling fans, fishing gear, chair bottom holder etc.

**Mechanism** KA-103 is an impact modifier providing an excellent balance of impact resistance and modulus retention in PA/GF. The improvement in impact is obtained by POE grafted with MAH.

**Property/Advantages** Due to its stable structure, KA-103 has an outstanding performance in improving impact strength of PA, especially in PA/GF.

Application Characteristics in PA6				
Properties	Unit	PA6	PA6+10%(KA-101)	PA6+10%(KA-103)
Tensile Strength	MPa	69	66	65
Flexural Strength	MPa	91	86	81
Izod Impact Strength	KJ/m <sup>2</sup>	15	25	40

  

Application Characteristics in PA6/GF			
Properties	Unit	PA6+GF20%	PA6+GF20%+5%(KA-103)
Tensile Strength	MPa	138	135
Flexural Strength	MPa	198	195
Izod Impact Strength	KJ/m <sup>2</sup>	12.5	20

**Guidelines for use** KA-103 is particularly easy to disperse into PA and in PA based blends when compounded on twin-screw extruders. The use level is recommended to be 5%-25%, or depend on the required performance in a particular matrix.

**Packaging and Storage** 20kg in bag. Keep the products in a cool, well-ventilated area. Guarantee period: 12 months.

