

Mahesh Manglesh Plastics Pvt. Ltd.

Importer, Distributor and Stockists of Engineering Polymer Materials
PA6, PA66, POM, PBT, TPU, TPE, ABS, PMMA, PC, PA46, PPS, PPA



Trust. Value. Support.

Comparison Between FRIANYL B3 GF 30 & BKV30 FNO4 Natural

Property	FRIANYL B3 GF30 V0	Durethan BKV30FN04
Polymer Type	PA6-GF30 FR40	PA6-GF30 FR40
Density	1400 kg/m ³	1420 kg/m ³
Reinforcement	30% Glass Fiber	30% Glass Fiber
Water Absorption	4.8%	4.6%
Humidity Absorption	1.4%	1.5%
Tensile Modulus (ISO 527-1/2)	10300 MPa	10300 / 6700 MPa*
Stress at Break (ISO 527-1/2)	140 MPa	130 / 90 MPa*
Strain at Break (ISO 527-1/2)	3%	3% / 6%*
Charpy Impact, 23°C (ISO 179-1eU)	62.8 kJ/m ²	60 / 68 kJ/m ² *
Charpy Notched, 23°C (ISO 179-1eA)	11.5 kJ/m ²	10 / 13 kJ/m ² *
Melting Temperature (ISO 11357)	225°C	220°C
Deflection Temp. (1.8 MPa, ISO 75)	190°C	205°C
Deflection Temp. (0.45 MPa, ISO 75)	210°C	219°C
Burning Behavior (1.5 mm)	V-0 class (IEC 60695-11-10)	V-0 class (IEC 60695-11-10)
Odor Emission	Class 2 (VDA 270)	Class 2 (VDA 270)
Main Applications	Automotive interior/exterior/motor parts	Automotive interior/exterior/motor parts
Chemical Resistance	Standard for PA6-GF30 FR compounds, including oils and coolants	Standard for PA6-GF30 FR compounds, including oils and coolants

Summary -

Some property values in Durethan BKV30FN04 are provided as multiple values, possibly representing dry/conditioned or min/max ranges.

Both materials are highly similar in structure and performance, delivering excellent mechanical strength, impact resistance, and thermal stability suitable for demanding automotive applications.