

## PA6, Black 30% Glass Fibre Reinforced Compound.

Polyramid BRV30 BK10 is a Black, 30% glass fibre reinforced, medium viscosity, heat stabilised, Industrial grade Polyamide 6 for injection moulding applications

### General Properties

Polymer Type	PA6
Filler / Reinforcement	Glass Fibre Reinforced
Processing Method	Injection Moulding
Form	Uniform Granules

Physical Properties	Test Method	Unit	D-A-M
Density	ISO 1183	g/cm <sup>3</sup>	1.36
Mould shrinkage - flow (2mm)	Internal	%	0.5-0.9
Mould shrinkage - across flow (2mm)	Internal	%	0.8-1.1
Water absorption (humidity)	ISO 62	%	2

Mechanical Properties	Test Method	Unit	D-A-M	Conditioned
Tensile Strength	ISO 527-2/1A	MPa	145	85
Tensile Strain @ Break	ISO 527-2/1A	%	2.5	4.1
Tensile Modulus	ISO 527-2/1A	MPa	8000	5500
Flexural Strength	ISO 178	MPa	220	125
Flexural Modulus	ISO 178	MPa	6800	4800
Charpy Unnotched Impact	ISO 179/1eU	kJ/m <sup>2</sup>	45	
Charpy Unnotched Impact @ -30°C	ISO 179/1eU	kJ/m <sup>2</sup>	38	
Charpy Notched Impact	ISO 179/1eA	kJ/m <sup>2</sup>	8	
Charpy Notched Impact @ -30°C	ISO 179/1eA	kJ/m <sup>2</sup>	6	
Izod Notched Impact	ISO 180	kJ/m <sup>2</sup>	7	14

Thermal Properties	Test Method	Unit	D-A-M
Heat Distortion Temperature @ 0.45MPa	ISO75-2/B	°C	220
Heat Distortion Temperature @ 1.8MPa	ISO75-2/A	°C	210

Flammability Properties	Test Method	Unit	D-A-M
Flame Rating (Not UL listed)	Internal test (UL94)	*	HB (1.6mm)

Recommended Processing	Unit
Drying Temperature	°C
Drying Time	Hours
Processing Temperatures (Barrel Zones)	°C
Optimum Melt temperature range	°C
Mould Temperature	°C

The material is supplied predried. Additional drying will be necessary if the material is open to the air for more than 2 to 3 hours. Redrying is also recommended after prolonged storage in undisturbed original packaging. The appearance of splash marks on the surface of mouldings indicates excessive moisture is present. Excessive drying temperature or duration will lead to progressive yellowing of natural or light colours.

### Packaging and Storage

25Kg Moisture proof Aluminium sacks, Big Bags, Octobins, Bulk Silo  
Store in dry, well ventilated areas away from heat sources.

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All data provided is based on typically achieved values and not to be taken as specifications.  
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