

ENGINEERING PLASTICS BUSINESS

Nominal Properties of TUFBET - *BGF 30 Black*

TUFBET BGF 30 Black is 30% glass reinforced PBT compounded black granules for injection molding.

PROPERTIES	Units	Test method	Value
MECHANICAL			
Tensile strength	Mpa	ISO 527	130
Flexural strength	Mpa	ISO 178	200
Flex. Modulus	Mpa	ISO 178	7700
Izod at 23 deg notched	kg.cm/cm	ISO 180	8
ELECTRICAL			
Volume Resistivity	Ohm-m	IEC60093	10 ¹³
Surface Resistivity	Ohm	IEC60093	10 ¹⁵
Comparative Tracking Index	V	IEC60112	475
THERMAL			
Heat deflection temperature			
a) Under load 1.8MPa	Deg.C	ISO 75	205
b) Under load 0.45MPa	Deg.C	ISO 75	220
Melting Temperature	Deg.C	ISO 11357	225
OTHER			
Specific gravity		ASTM D792	1.52
Water Absorption	%	ASTM D570	0.30
Filler content	%	SRF Polymers	30

All Properties measured at 23 Deg.C, on dry-as-molded test specimens.

Only typical data for material selection purposes only. Users have to establish material suitability.

The above property values should not be taken as a basis for fixing specifications. The values for specifications can be obtained from M/S SRF Limited for particular grade and shade. Information given in this sheet is to the best of our knowledge and experience, but without warranty, since the conditions of use are beyond our control.

Processing parameters for TUF BET BGF 30 Black

PROPERTIES	Units	Value
Processing		
Drying Time	hrs	2 – 4
Drying Temperature	Deg.C	80 – 100
Injection molding parameters		
a) Feed	Deg.C	230
b) Compression	Deg.C	235
c) Metering	Deg.C	245
d) Nozzle	Deg.C	250
e) Melt Temperature Range	Deg.C	235 – 250
f) Mould Temperature Range	Deg.C	60 - 80

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