bio-composite resin solutions

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TECHNICAL DATA SHEET

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Bio-Composite Resin: CGTECH - BCR – MMS20

Product Description:

The properties below are typical of CGTech bio-carbon reinforced hi flex hi stiffness polypropylene bio-composite compounded resin that **substitutes 20% Talc Filled Polypropylene**

Physical Properties	CGTech - Typical Values*	Test Method	20% TFPP 44045-PP6
Melt Flow	10 g/ 10 min @230°C,2.16Kg	ASTM D1238	10 g / 10 min @230°C, 2.16Kg
Bio-content	25%	C14 -`New carbon**	20% Talc – no new carbon
Notched Izod Impact @ 23°C	28 J/m	ASTM D256	25 J/m
UN-Notched Izod Impact @ 23°C	300 J/m	ASTM D4812-11	200 J/m
Tensile Strength @ Yield (5mm/min)	40 MPa	ASTM D638	32 MPa
Flexural Modulus (14mm/minute)	2.80 GPa	ASTM D790	2.6 GPa
Flexural Strength (14mm/minute)	68 MPa	ASTM D790	40 MPa
Heat Distortion Temperature	132 °C	D 648-DMA-Q800	N/A
Mould Shrinkage	0.014-0.016 cm/cm	ASTM D 955	N/A
Density	0.990 gm/cc	ASTM D 256	1.05 gm/cc

Note: *Values provided are typical and should not be interpreted as product specification.

The results reported are typical with the caveat that due to variable processing methods and conditions, no guarantees or warranties are expressed or implied, including expressions of fitness for purpose or merchantability.

This is a patent pending formulation.

**We have used patent pending Bio-Carbon substitute which has been certified by USDA as per above label as 99% new carbon.


USDA
CERTIFIED
BIOBASED
PRODUCT
PRODUCT 99%