

Product Texts

HiDura S3MG30H BK0835 is a 30% glass fiber reinforced, heat stabilized polyamide 610 with 42% bio-based content for injection molding applications.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.6 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	9100 / 6800	MPa	ISO 527
^[C] Stress at break	158 / 120	MPa	ISO 527
^[C] Strain at break	4.4 / 7.6	%	ISO 527
^[C] Charpy impact strength, +23°C	97 / 102	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	97 / 87	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	18 / 20	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	13 / 13	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	225 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	197 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	219 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	21 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	120 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Electric strength	32 / 29	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	0.4 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1 / *	%	Sim. to ISO 62
^[C] Density	1310 / -	kg/m ³	ISO 1183
Biobased content	42	%	-

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Delivery form

Pellets, Black

Special Characteristics

Heat stabilized or stable to heat

Certifications

Contains renewable resources

Regional Availability

North America, Europe, Asia Pacific