

Product Texts

Zytel® RS78G33FHS BK083 is a 33% glass reinforced, heat stabilized, biobased polyamide 610 resin.

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] Spec. heat capacity of melt	2130	J/(kg K)	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	10200 / 8200	MPa	ISO 527
^[C] Stress at break	189 / 139	MPa	ISO 527
^[C] Strain at break	3.1 / 4.3	%	ISO 527
^[C] Charpy impact strength, +23°C	90 / 83	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	74 / 72	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	13 / 13	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	11 / 11	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] Glass transition temperature, 10°C/min	60 / *	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	209 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	19 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	97 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	4E12 / -	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 4E12	Ohm	IEC 62631-3-2
^[C] Electric strength	35 / -	kV/mm	IEC 60243-1
^[C] Comparative tracking index	575 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	2.9 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.1 / *	%	Sim. to ISO 62
^[C] Density	1340 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Delivery form

Black

Special Characteristics

Heat stabilized or stable to heat

Certifications

Contains renewable resources