

CEVIAN

Flame-retardant ABS resin

Technical Information

TI-05267

Properties

SKG20

Glass fiber-reinforced flame-retardant ABS resin (GF20%)

Heat resistance

Properties	Test methods	Test conditions	Units	
Mold shrinkage	Our standard	-	%	0.2-0.5
Tensile strength	ISO 527	-	MPa	90
Flexural strength	ISO 178	-	MPa	140
Flexural modulus	ISO 178	-	MPa	7100
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m ²	6
Notched Izod impact strength	ASTM D256	23 deg C/6.4mm	J/m	60
Deflection temperature under load	ISO 75	1.80MPa	deg C	97
Deflection temperature under load	ASTM D648	1.82MPa/12.7mm	deg C	105
Vicat softening temperature	ISO 306/B50	50N X 50deg C/h	deg C	101
Ball pressure temperature	-	-	deg C	95
Coefficient of linear thermal expansion	ISO 11359	MD	X1E-5/deg C	3
Coefficient of linear thermal expansion	ISO 11359	TD	X1E-5/deg C	8
Flammability	UL94	-	-	V-0/1.5mm 5VA/2.5mm
Dielectric strength	ASTM D149	1.5mm	MV/m	22
Arc resistance	ASTM D495	3.0mm	sec(PLC)	-(7)
Water absorption	ISO 62	-	%	0.3
Density	ISO 1183	-	g/cm ³	1.33

Note

- Test methods such as ISO standards are fully or almost compliant with the standards.
- Values are typical, not quality assured.
- UL recognition File No. is E47773.
- The colorant formulations are restricted for each UL certified color. Please contact us for more information.

Typical settings for processing

Preliminary drying	Barrel temperature(deg C)				Screw rotation (rpm)	Back pressure (MPa)	Mold temperature (deg C)
	Nozzle	Front	Middle	Back			
3-4hrs 80-85deg C	220-240	220-240	200-220	180-200	40-60	10-20	60-80