

Cevian®-V VGR20

Acrylonitrile Butadiene Styrene

Daicel Polymer Ltd.

Message:

Cevian®-V VGR20 is an Acrylonitrile Butadiene Styrene (ABS) material filled with 20% glass fabric. It is available in Asia Pacific. Primary attribute of Cevian®-V VGR20: Flame Rated.

General Information			
UL YellowCard	E47773-239565		
Filler / Reinforcement	Glass Fabric,20% Filler by Weight		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.10 to 0.40	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	90.0	MPa	ISO 527-2
Flexural Modulus	6800	MPa	ISO 178
Flexural Stress	130	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.0	kJ/m ²	
23°C	10	kJ/m ²	
Notched Izod Impact			ASTM D256
-30°C, 6.40 mm	40	J/m	
23°C, 6.40 mm	110	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 12.7 mm	106	°C	ASTM D648
1.8 MPa, Unannealed	98.0	°C	ISO 75-2/A
Vicat Softening Temperature	103	°C	ISO 306/B50
CLTE			ISO 11359-2
Flow	4.0E-5	cm/cm/°C	
Transverse	8.0E-5	cm/cm/°C	
Ball Pressure Test	95	°C	
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 85.0	°C	

Drying Time	3.0 to 5.0	hr
Rear Temperature	190 to 210	°C
Middle Temperature	210 to 230	°C
Front Temperature	230 to 250	°C
Nozzle Temperature	230 to 250	°C
Mold Temperature	60.0 to 80.0	°C
Back Pressure	10.0 to 20.0	MPa
Screw Speed	40 to 60	rpm

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