

Cevian®-V SER20

Acrylonitrile Butadiene Styrene

Daicel Polymer Ltd.

Message:

Cevian® -V SER20 is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific. Primary attribute of Cevian® -V SER20: Flame Rated.

General Information			
UL YellowCard	E47773-239492		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	40	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	114		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	42.0	MPa	ISO 527-2
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress	70.0	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	15	kJ/m ²	
Notched Izod Impact			ASTM D256
-30°C, 6.40 mm	70	J/m	
23°C, 6.40 mm	150	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 12.7 mm	82.0	°C	ASTM D648
1.8 MPa, Unannealed	70.0	°C	ISO 75-2/A
Vicat Softening Temperature	82.0	°C	ISO 306/B50
CLTE - Flow	8.0E-5	cm/cm/°C	ISO 11359-2
Ball Pressure Test	80	°C	
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (1.50 mm)	34	kV/mm	ASTM D149
Arc Resistance (3.00 mm)	10.0	sec	ASTM D495
Arc Resistance (3.00 mm)	PLC 7		ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94

1.50 mm	V-1	
2.00 mm	V-0	
2.50 mm	5VA	
Injection	Nominal Value	Unit
Drying Temperature	70.0 to 80.0	°C
Drying Time	3.0 to 4.0	hr
Rear Temperature	160 to 170	°C
Middle Temperature	170 to 180	°C
Front Temperature	190 to 200	°C
Nozzle Temperature	190 to 200	°C
Mold Temperature	40.0 to 60.0	°C
Back Pressure	5.00 to 15.0	MPa
Screw Speed	40 to 60	rpm

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