

Cevian®-V 520, 520SF

Acrylonitrile Butadiene Styrene

Daicel Polymer Ltd.

Message:

Cevian®-V 520, 520SF is an acrylonitrile butadiene styrene (ABS) material. This product is available in the Asia-Pacific region. Cevian®The main characteristics of-V 520, 520SF are: flame retardant/rated flame.

General Information			
UL YellowCard	E47773-239445		
Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	22	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.40 - 0.60	%	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)	55.0	MPa	ISO 527-2
Flexural Modulus	3000	MPa	ISO 178
Flexural Stress	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.0	kJ/m ²	ISO 179/1eA
23°C	5.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact			ASTM D256
-30°C, 6.40 mm	30	J/m	ASTM D256
23°C, 6.40 mm	50	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 12.7mm	92.0	°C	ASTM D648
1.8 MPa, not annealed	81.0	°C	ISO 75-2/A
Vicat Softening Temperature	98.0	°C	ISO 306/B50
CLTE - Flow	8.0E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 85.0	°C	
Drying Time	3.0 - 5.0	hr	
Rear Temperature	170 - 190	°C	
Middle Temperature	190 - 210	°C	

Front Temperature	210 - 230	°C
Nozzle Temperature	210 - 230	°C
Mold Temperature	40.0 - 60.0	°C
Back Pressure	10.0 - 20.0	MPa
Screw Speed	70 - 90	rpm

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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