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Mineral grade physical property data

[NB-5620S(Light weight)]

Classification					Mineral reinforced	
					Alloy	
					NB-5620S (Light weight)	
Properties			Test method ASTM	Unit	Absolute drying	Practical use (Water absorption 2.1%)
Physical properties	Filler content rate		%		15	—
	Specific Gravity		D-792	—	1.17	—
	Hardness		D-785	R scale	116	—
	Water absorption	23°C, 24hr. in water	D-570	%	0.5	—
		65%R.H. equilibrium			2.1	—
Mechanical properties	Tensile strength	—40°C	D-638	MPa	100	90
		23°C			60	52
		80°C			25	22
	Tensile elongation	23°C	D-638	%	8.0	—
	Flexural strength	—40°C	D-790	MPa	160	152
		23°C			95	79
		80°C			40	30
	Flexural modulus	—40°C	D-790	GPa	6.2	5.4
		23°C			3.7	2.3
		80°C			2.8	1.4
	IZOD notched impact test	—40°C	D-256	J/m	40	60
		23°C			54	220
	Compression strength	23°C	D-695	MPa	—	—
	Taber	CS-17	D-			

	abrasion	1000cycles	1044	mg/1000turns	—	—
Thermal properties	Coefficient of linear thermal expansion		D-696	$10^{-5}/K$	—	—
	Deflection temperature under load	0.46MPa	D-648	℃	180	—
		1.82MPa			102	—
	Thermal Index		UL-94	class/mm	HB class	
Electric properties	Dielectric strength	2mmt	D-149	MV/m	25	21
	Volume Resistivity		D-257	$\Omega \cdot m$	10^{13}	10^{10}
	Dielectric constant	1kHz	D-150	1kHz	—	—
	Dielectric dissipation factor	1kHz	D-150	1kHz	—	—
	Arc resistance		D-495	sec.	130	120
	Comparation Tracking Index		IEC Method	CTI	>600	>600
Molding condition	Melt flow Index			g/10min	8	—
	Resine temperature			℃	240-290	—
	Mold temperature			℃	50-120	—
	Injection pressure			MPa	50 ~	—
	Mold shrinkage	1mm thickness		%	0.6-0.8	—
		3mm thickness			1.4-1.8	—

The data in the description is the popular value , not the guaranteed value.