



CELSTRAN[®] PCABS-SF6-05 AF3005 NATURAL CELSTRAN® Long Fibre

Celstran® PCABS-SF6-05 AF3005 NATURAL is composed of a polycarbonate/ABS polymer matrix with 6 wt% stainless steel fiber. Celstran® long stainless steel fiber filled PC/ABS materials provide electrical conductivity needed to reach desired levels of electrostatic dissipation (ESD) and electromagnetic interference (EMI)/radio frequency interference (RFI) shielding. These materials have significant advantages over short stainless steel fiber filled plastics. Conductivity properties increase by nearly 100 times when comparing to similar loadings. Celstran®PCABS-SF-05 materials contain continuous stainless steel filaments wetted and encapsulated by PC/ABS resin. Various stainless steel loadings can be selected to meet specific end use requirements.

Product information

Resin Identification Part Marking Code	(PC+ABS)-LMEF >(PC+ABS)-LME	· /	ISO 1043 ISO 11469
Typical mechanical properties			
Tensile modulus Tensile stress at break, 5mm/min Tensile strain at break, 5mm/min Flexural modulus Flexural strength Izod notched impact strength, 23°C Poisson's ratio [C]: Calculated	60 3.8 2800 60	MPa MPa % MPa KJ/m ²	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 178 ISO 180/1A
Thermal properties			
Temperature of deflection under load, RTI, electrical, 1.5mm RTI, impact, 1.5mm RTI, strength, 1.5mm	60 60	2° 2° 2°	ISO 75-1/-2 UL 746B UL 746B UL 746B
Flammability			
Burning Behav. at 1.5mm nom. thickn. Thickness tested UL recognition	=	class mm	IEC 60695-11-10 IEC 60695-11-10 UL 94
Physical/Other properties			
Density	1200	kg/m³	ISO 1183
Characteristics			
Processing	Injection Moulding		
Special characteristics	Increased electrical conductivity, Static dissipative		





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