INELEC PEEKCF20HF

Polyetheretherketone

Infinity LTL Engineered Compounds

Message:

Inelec carbon fiber, carbon powder, stainless steel fiber, nickel coated carbon fiber and antistatic alloy electrically active compounds Offered in all Infinity base resins

Provide electrostatic discharge and electrical conductivity. EMI and RFI shielding compounds available

	High Flow		
Features	Electrically Conductive		
Filler / Reinforcement	Carbon Fiber,20% Filler by	/ Weight	
General Information			

Specific Gravity136g/cm³ASTM D792Specific Yolume0.736cm²/gMolding Shrinkage - Flow0.20 to 0.30%ASTM D955Water Absorption (24 hr)0.10%ASTM D570HardnessNominal ValueUnitText MethodRockwell Hardness (R-Scale)12ASTM D785MeniadNominal ValueUnitText MethodTensile Stongth (Yield)28MPaASTM D638Tensile Stongth (Yield)10 to 3.0%ASTM D638Rexural Modulus1600MPaASTM D638Resural Modulus1600MPaASTM D638InpactNominal ValueMinASTM D56Notchel Izongtation (Yield)69ASTM D26InpactNominal ValueMinASTM D256InpactNominal ValueMinASTM D256Defection Temperature Under Load (TagJangMinMananealed)516ASTM D266Effection Temperature Under Load (TagJangMinMananealed)516ASTM D568Clift FlowSciese CommentGender CommentStrafta Resistivity0.161LeatMethodStrafta ResistivityNominal ValueMinInpactMinal ValueMinMinInpactMinal ValueMinMinStrafta ResistivityNominal ValueMinMinInpactMinal ValueMinMinInpactMinal Value <td< th=""><th>Physical</th><th>Nominal Value</th><th>Unit</th><th>Test Method</th></td<>	Physical	Nominal Value	Unit	Test Method
Molding Shrinkage - Flow0.20 to 0.30NASTM D955Water Absorption (24 hr)0.10%ASTM D570HardnessNominal ValueUnitTest MethodRockwell Hardness (R-Scale)124ASTM D785MechanicalNominal ValueUnitTest MethodTensile Strength (Yield)28MPaASTM D638Tensile Strength (Yield)10 to 3.0%ASTM D638Flexural Modulus10500MPaASTM D790Flexural Strength311MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (3.18 mr)69J/mASTM D256Ottender Load (ILS)Soft Astm D250J/mASTM D648Deflection Temperature Under Load (1.8 MPA, Unannealed)316°CASTM D648CITE - Flow25-5m/cm/°CASTM D648CITE - Flow10:E+2 to 1.0E+4ohmsASTM D596ElectricalNominal ValueUnitTest MethodSurface Resistivity10:E+2 to 1.0E+4ohmsASTM D257FlammabilityNominal ValueUnitTest MethodFlammabilityNominal ValueUnitTest MethodFlammabilityNominal ValueUnitTest MethodFlammabilityNominal ValueUnitTest MethodFlammabilityNominal ValueUnitTest MethodFlammabilityNominal ValueUnitTest MethodFlammabilityNominal ValueUnitTest Method </td <td>Specific Gravity</td> <td>1.36</td> <td>g/cm³</td> <td>ASTM D792</td>	Specific Gravity	1.36	g/cm³	ASTM D792
Water Absorption (24 hr)0.10%ASTM D570HardnessNominal ValueUnitTest MethodRockwell Hardness (R-Scale)124ASTM D785MechanicalNominal ValueUnitTest MethodTensile Strength (Yield)228MPaASTM D638Tensile Elongation (Yield)1.0 to 3.0%ASTM D638Flexural Modulus16500MPaASTM D790Flexural Strength16500MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (3.18 mm)69J/mASTM D256Peffettion Temperature Under Load (1.8 MPa, Unannealed)S16CASTM D648Deffetction Temperature Under Load (1.8 MPa, Unannealed)S16CASTM D648Straface Resistivity0.0E+2 to 1.0E+4ohmsASTM D257FlammabilityNominal ValueUnitTest MethodFlammabilityNominal V	Specific Volume	0.736	cm³/g	
HardnessNominal ValueUnitTest MethodRockwell Hardness (R-Scale)124ASTM D785MechanicalNominal ValueUnitTest MethodTensile Strength (Yield)228MPaASTM D638Tensile Elongation (Yield)1.0 to 3.0%ASTM D638Flexural Modulus16500MPaASTM D790Flexural Strength311MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (3.18 mm)69J/mASTM D256ThermalNominal ValueUnitTest MethodDeflection Temperature Under Load (1.8 MPa, Unannealed)316°CASTM D648CLTE - Flow2.5 -5cm/cm/°CASTM D646Strind E Restingtify10.6 +2 to 1.0 E+4ohmsASTM D257FlarmabilityNominal ValueUnitTest MethodSurface Resistivity1.0 E+2 to 1.0 E+4ohmsASTM D257FlarmabilityNominal ValueUnitTest MethodFlarmabilityV-0UnitTest MethodFlare Rating (1.59 mm)1.0 E+2 to 1.0 E+4ohmsASTM D257FlarmabilityNominal ValueUnitTest MethodFlare Rating (1.59 mm)1.0 E+2 to 1.0 E+4ohmsMathchedFlare Rating (1.59 mm)1.0 E+2 to 1.0 E+4ohmsUnitTest MethodFlare Rating (1.59 mm)1.0 E+2 to 1.0 E+4ohmsUnitTest MethodFlare Rating (1.59 mm)1.0 E+2 to 1.0 E+4ohmsUnit	Molding Shrinkage - Flow	0.20 to 0.30	%	ASTM D955
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Flame Rating (1.59 mm) V-0 UL 94 Injection Nominal Value Unit Drying Temperature 149 °C Drying Time 4.0 hr	Surface Resistivity	1.0E+2 to 1.0E+4	ohms	ASTM D257
InjectionNominal ValueUnitDrying Temperature149°CDrying Time4.0hr	Flammability	Nominal Value	Unit	Test Method
Drying Temperature 149 °C Drying Time 4.0 hr	Flame Rating (1.59 mm)	V-0		UL 94
Drying Time 4.0 hr	Injection	Nominal Value	Unit	
	Drying Temperature	149	°C	
Processing (Melt) Temp 349 to 393 °C	Drying Time	4.0	hr	
	Processing (Melt) Temp	349 to 393	°C	

Mold Temperature	149	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	
Vent Depth	0.038 to 0.076	mm	

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