INELEC PA66CF20IM

Polyamide 66

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

General Information		
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight	
Additive	Impact Modifier	
Features	Electrically Conductive	
	Impact Modified	

Specific Gravity 1.17 g/cm³ ASTM D792 Specific Volume 0.855 cm³/g Molding Shrinkage - Flow 0.10 to 0.30 % ASTM D955 Water Absorption (24 hr) 0.80 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength (Yield) 152 MPa ASTM D638 Tensile Elongation (Yield) 3.0 to 5.0 % ASTM D638 Flexural Modulus 10300 MPa ASTM D790 Ilexural Strength 234 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (3.18 mm) 130 J/m ASTM D256 Unnotched Izod Impact (3.18 mm) 530 J/m ASTM D256 Unnotched Izod Impact (3.18 mm) 530 J/m ASTM D646 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 232 °C ASTM D648 CLTE - Flow 4.9E-5 c	Physical	Nominal Value	Unit	Test Method
Molding Shrinkage - Flow 0.10 to 0.30 % ASTM D955 Water Absorption (24 hr) 0.80 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength (Yield) 152 MPa ASTM D638 Tensile Elongation (Yield) 3.0 to 5.0 % ASTM D638 Flexural Modulus 10300 MPa ASTM D790 Flexural Strength 2.34 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (3.18 mm) 130 J/m ASTM D256 Unnotched Izod Impact (3.18 mm) 530 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 232 °C ASTM D648 CLTE - Flow 4.9E-5 cm/cm/°C ASTM D696 Electrical Nominal Value Unit Test Method Surface Resistivity 1.0E+2 to 1.0E+4 ohms ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating (1.59 mm) HB UL 94 Injection Nominal Value Unit	Specific Gravity	1.17	g/cm³	ASTM D792
Water Absorption (24 hr) 0.80 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength (Yield) 152 MPa ASTM D638 Tensile Elongation (Yield) 3.0 to 5.0 % ASTM D638 Flexural Modulus 10300 MPa ASTM D790 Flexural Strength 234 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (3.18 mm) 130 J/m ASTM D256 Unnotched Izod Impact (3.18 mm) 530 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 232 °C ASTM D648 CLTE - Flow 4.9E-5 cm/cm/°C ASTM D666 Electrical Nominal Value Unit Test Method Surface Resistivity 1.0E+2 to 1.0E+4 ohms ASTM D257 Flammability Nominal Value Unit Test Method Injection Nominal Value <td>Specific Volume</td> <td>0.855</td> <td>cm³/g</td> <td></td>	Specific Volume	0.855	cm³/g	
MechanicalNominal ValueUnitTest MethodTensile Strength (Yield)152MPaASTM D638Tensile Elongation (Yield)3.0 to 5.0%ASTM D638Flexural Modulus10300MPaASTM D790Flexural Strength234MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (3.18 mm)130J/mASTM D256Unnotched Izod Impact (3.18 mm)530J/mASTM D256ThermalNominal ValueUnitTest MethodDeflection Temperature Under Load (1.8 MPa, Unannealed)232°CASTM D648MPa, Unannealed)232°CASTM D648CLTE - Flow4.9E-5cm/cm/°CASTM D696ElectricalNominal ValueUnitTest MethodSurface Resistivity1.0E+2 to 1.0E+4ohmsASTM D257FlammabilityNominal ValueUnitTest MethodFlame Rating (1.59 mm)HBUnitTest MethodInjectionNominal ValueUnitUnit	Molding Shrinkage - Flow	0.10 to 0.30	%	ASTM D955
Tensile Strength (Yield) 152 MPa ASTM D638 Tensile Elongation (Yield) 3.0 to 5.0 % ASTM D638 Flexural Modulus 10300 MPa ASTM D790 Flexural Strength 234 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (3.18 mm) 130 J/m ASTM D256 Unnotched Izod Impact (3.18 mm) 530 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 232 °C ASTM D648 CLTE - Flow 4.9E-5 cm/cm/°C ASTM D696 Electrical Nominal Value Unit Test Method Unit Test Method Duit Test Method Flame Rating (1.59 mm) HB UL 94 Injection Nominal Value Unit Test Method Unit Test Method Unit Test Method Unit Test Method Flame Rating (1.59 mm) HB UL 94 Injection Nominal Value Unit	Water Absorption (24 hr)	0.80	%	ASTM D570
Tensile Elongation (Yield) 3.0 to 5.0 MPa ASTM D638 Flexural Modulus 10300 MPa ASTM D790 Flexural Strength 234 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (3.18 mm) 130 J/m ASTM D256 Unnotched Izod Impact (3.18 mm) 530 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 232 °C ASTM D648 CLTE - Flow 4.9E-5 cm/cm/°C ASTM D696 Electrical Nominal Value Unit Test Method Surface Resistivity 1.0E+2 to 1.0E+4 ohms ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating (1.59 mm) HB UL 94 Injection Nominal Value Unit	Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus 10300 MPa ASTM D790 Flexural Strength 234 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (3.18 mm) 130 J/m ASTM D256 Unnotched Izod Impact (3.18 mm) 530 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (18 MPa, Unannealed) CLTE - Flow 4.9E-5 cm/cm/°C ASTM D648 CLTE - Flow Lunit Test Method Deflectrical Nominal Value Unit Test Method Deflectrical Nominal Value Unit Test Method Test Method Unit Test Method Unit Test Method Unit Test Method Flammability Nominal Value Unit Test Method Flame Rating (1.59 mm) HB UL 94 Injection Nominal Value Unit	Tensile Strength (Yield)	152	МРа	ASTM D638
Flexural Strength 234 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (3.18 mm) 130 J/m ASTM D256 Unnotched Izod Impact (3.18 mm) 530 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 232 °C ASTM D648 CLTE - Flow 4.9E-5 cm/cm/°C ASTM D696 Electrical Nominal Value Unit Test Method Surface Resistivity 1.0E+2 to 1.0E+4 ohms ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating (1.59 mm) HB UL 94 Injection Nominal Value Unit	Tensile Elongation (Yield)	3.0 to 5.0	%	ASTM D638
Impact Nominal Value Unit Test Method Notched Izod Impact (3.18 mm) 130	Flexural Modulus	10300	МРа	ASTM D790
Notched Izod Impact (3.18 mm) 130 J/m ASTM D256 Unnotched Izod Impact (3.18 mm) 530 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 232 °C ASTM D648 CLTE - Flow 4.9E-5 cm/cm/°C ASTM D696 Electrical Nominal Value Unit Test Method Surface Resistivity 1.0E+2 to 1.0E+4 ohms ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating (1.59 mm) HB Unit Test Method Injection Nominal Value Unit	Flexural Strength	234	МРа	ASTM D790
Unnotched Izod Impact (3.18 mm)530J/mASTM D256ThermalNominal ValueUnitTest MethodDeflection Temperature Under Load (1.8 MPa, Unannealed)232°CASTM D648CLTE - Flow4.9E-5cm/cm/°CASTM D696ElectricalNominal ValueUnitTest MethodSurface Resistivity1.0E+2 to 1.0E+4ohmsASTM D257FlammabilityNominal ValueUnitTest MethodFlame Rating (1.59 mm)HBUnitU1.94InjectionNominal ValueUnitDrying Temperature79.4°C	Impact	Nominal Value	Unit	Test Method
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Deflection Temperature Under Load (1.8 MPa, Unannealed) 232 °C ASTM D648 CLTE - Flow 4.9E-5 cm/cm/°C ASTM D696 Electrical Nominal Value Unit Test Method Surface Resistivity 1.0E+2 to 1.0E+4 ohms ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating (1.59 mm) HB UL 94 Injection Nominal Value Unit Drying Temperature 79.4 °C	Unnotched Izod Impact (3.18 mm)	530	J/m	ASTM D256
MPa, Unannealed)232°CASTM D648CLTE - Flow4.9E-5cm/cm/°CASTM D696ElectricalNominal ValueUnitTest MethodSurface Resistivity1.0E+2 to 1.0E+4ohmsASTM D257FlammabilityNominal ValueUnitTest MethodFlame Rating (1.59 mm)HBUL 94InjectionNominal ValueUnitDrying Temperature79.4°C	Thermal	Nominal Value	Unit	Test Method
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ElectricalNominal ValueUnitTest MethodSurface Resistivity1.0E+2 to 1.0E+4ohmsASTM D257FlammabilityNominal ValueUnitTest MethodFlame Rating (1.59 mm)HBUL 94InjectionNominal ValueUnitDrying Temperature79.4°C	MPa, Unannealed)	232	°C	ASTM D648
Surface Resistivity 1.0E+2 to 1.0E+4 ohms ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating (1.59 mm) HB UL 94 Injection Nominal Value Unit Drying Temperature 79.4 °C	CLTE - Flow	4.9E-5	cm/cm/°C	ASTM D696
Flammability Nominal Value Unit Test Method Flame Rating (1.59 mm) HB UL 94 Injection Nominal Value Unit Drying Temperature 79.4 °C	Electrical	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm) HB UL 94 Injection Nominal Value Unit Drying Temperature 79.4 °C	Surface Resistivity	1.0E+2 to 1.0E+4	ohms	ASTM D257
Injection Nominal Value Unit Drying Temperature 79.4 °C	Flammability	Nominal Value	Unit	Test Method
Drying Temperature 79.4 °C	Flame Rating (1.59 mm)	НВ		UL 94
, , ,	Injection	Nominal Value	Unit	
Drying Time 4.0 hr	Drying Temperature	79.4	°C	
	Drying Time	4.0	hr	
Processing (Melt) Temp 260 to 302 °C	Processing (Melt) Temp	260 to 302	°C	
Mold Temperature 93.3 °C	Mold Temperature	93.3	°C	

Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm
Vent Depth	0.013 to 0.025	mm

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