Nycal™ 2120H Bk-7

Polyamide 66

Technical Polymers, LLC

Message:

Nycal[™]The 212 H Bk-7 is a polyamide 66 (nylon 66) material. This product is available in North America and is processed by injection molding. Nycal[™]The main features of the 212 H Bk-7 are: flame retardant/rated flame

good weather resistance

heat stabilizer

	General Information			
Appearance Black Forms Particle Processing Method Injection molding Physical Nominal Value Unit Test Method Specific Gravity 1.15 g/cm² ASTM D792 Mechanical Nominal Value Unit Test Method Itensile Strength (23°C) 89.6 MPa ASTM D638 Flexural Modulus (23°C) 15 % ASTM D638 Flexural Modulus (23°C) 2960 MPa ASTM D638 Flexural Modulus (23°C) 43 J/m ASTM D636 Notiched Izod Impact (23°C) 43 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 238 °C ASTM D648 Mething Temperature Under Load 87.8 °C ASTM D648 Mething Temperature 260 °C ASTM D648 Mething Temperature 260 °C DSC Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms-cm ASTM D257 Flammability Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms-cm ASTM D257 Flammability Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms-cm ASTM D257 Flammability Nominal Value Unit Test Method Volume Resistivity Nominal Value Unit Test Method	Additive	heat stabilizer		
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Physical Nominal Value Unit Test Method Specific Gravity 1.15 g/cm³ ASTM D792 Mechanical Nominal Value Unit Test Method Tensile Etrength (23°C) 89.6 MPa ASTM D638 Tensile Elongation (Break, 23°C) 15 % ASTM D638 Elexural Modulus (23°C) 2960 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C) 43 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 238 °C ASTM D648 1.8 MPa, not annealed 87.8 °C ASTM D648 1.8 MPa, not annealed 87.8 °C ASTM D648 Melting Temperature 260 °C DC Electrical Nominal Value Unit Test Method Volume Resistivity Nominal Value Unit Test Method Hammability Nominal Value Unit Unit <td>Forms</td> <td>Particle</td> <td></td> <td></td>	Forms	Particle		
Specific Gravity 1.15 g/cm³ ASTM D792	Processing Method	Injection molding		
Mechanical Nominal Value Unit Test Method Fensile Strength (23°C) 89.6 MPa ASTM D638 Flexural Modulus (23°C) 15 % ASTM D638 Flexural Modulus (23°C) 2960 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C) 43 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 38 °C ASTM D648 0.45 MPa, not annealed 87.8 °C ASTM D648 1.8 MPa, not annealed 87.8 °C ASTM D648 Melting Temperature 260 °C DSC Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms-cm ASTM D257 Flammability Nominal Value Unit Test Method Additional Information Test Method Unit Test Method Tensile Elongation, ASTM D638: >15%Volum Resistivity, ASTM D257: >1e14 ohm-cm	Physical	Nominal Value	Unit	Test Method
Remaile Strength (23°C)	Specific Gravity	1.15	g/cm³	ASTM D792
ASTM D638	Mechanical	Nominal Value	Unit	Test Method
Plexural Modulus (23°C) 2960 MPa	Tensile Strength (23°C)	89.6	MPa	ASTM D638
Nominal Value Unit Test Method Notched Izod Impact (23°C) 43 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load Deflection Temperature Under Load 0.45 MPa, not annealed 238 °C ASTM D648 1.8 MPa, not annealed 87.8 °C ASTM D648 Melting Temperature 260 °C DSC Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms-cm ASTM D257 Flammability Nominal Value Unit Test Method Test Method Test Method Unit Test Method	Tensile Elongation (Break, 23°C)	15	%	ASTM D638
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Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 0.45 MPa, not annealed 238 °C ASTM D648 1.8 MPa, not annealed 87.8 °C ASTM D648 Melting Temperature 260 °C DSC Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating HB UL94 Additional Information Tensile Elongation, ASTM D638: >15%Volum Resistivity, ASTM D257: >1e14 ohms-cm Injection Nominal Value Unit Drying Temperature 3.9 - 79.4 °C Drying Time 3.0 - 4.0 hr	Impact	Nominal Value	Unit	Test Method
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Melting Temperature 260 °C DSC Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method UL 94 Additional Information Tensile Elongation, ASTM D638: >15%Volum Resistivity, ASTM D257: >1e14 ohm-cm Injection Nominal Value Unit Drying Temperature 73.9 - 79.4 °C Drying Time 3.0 - 4.0 hr	0.45 MPa, not annealed	238	°C	ASTM D648
Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating HB UL 94 Additional Information Tensile Elongation, ASTM D638: >15%Volum Resistivity, ASTM D257: >1e14 ohm-cm Injection Nominal Value Unit Drying Temperature 73.9 - 79.4 °C Drying Time 3.0 - 4.0 hr	1.8 MPa, not annealed	87.8	°C	ASTM D648
Volume Resistivity 1.0E+14 Ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method UL 94 Additional Information Tensile Elongation, ASTM D638: >15%Volum Resistivity, ASTM D257: >1e14 ohm-cm Injection Nominal Value Unit Drying Temperature 73.9 - 79.4 °C Drying Time 3.0 - 4.0 hr	Melting Temperature	260	°C	DSC
Flammability Nominal Value Unit Test Method Flame Rating HB UL 94 Additional Information Tensile Elongation, ASTM D638: >15%Volum Resistivity, ASTM D257: >1e14 ohm-cm Injection Nominal Value Unit Drying Temperature 73.9 - 79.4 °C Drying Time 3.0 - 4.0 hr	Electrical	Nominal Value	Unit	Test Method
Flame Rating HB UL 94 Additional Information Tensile Elongation, ASTM D638: >15%Volum Resistivity, ASTM D257: >1e14 ohm-cm Injection Nominal Value Unit Drying Temperature 73.9 - 79.4 °C Drying Time 3.0 - 4.0 hr	Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
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Tensile Elongation, ASTM D638: >15%Volum Resistivity, ASTM D257: >1e14 ohm-cm Injection Nominal Value Unit Drying Temperature 73.9 - 79.4 °C Drying Time 3.0 - 4.0 hr	Flame Rating	НВ		UL 94
Drying Time Nominal Value Unit Orying Temperature 73.9 - 79.4 °C Drying Time 3.0 - 4.0 hr	Additional Information			
Drying Temperature 73.9 - 79.4 °C Drying Time 3.0 - 4.0 hr	Tensile Elongation, ASTM D638: >15%V	olum Resistivity, ASTM D257: >1e	14 ohm-cm	
Drying Time 3.0 - 4.0 hr	Injection	Nominal Value	Unit	
	Drying Temperature	73.9 - 79.4	°C	
Processing (Melt) Temp 271 - 299 °C	Drying Time	3.0 - 4.0	hr	
	Processing (Melt) Temp	271 - 299	°C	

Mold Temperature 37.8 - 93.3 °C

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