

Grivory® HT3Z LF black 9564

Polyamide 10T/X Copolymer

EMS-GRIVORY

Message:

Grivory® HT3Z LF black 9564 is a Polyamide 10T/X Copolymer (Nylon 10T/X) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grivory® HT3Z LF black 9564 are:

- Flame Rated
- Chemical Resistant
- Eco-Friendly/Green
- Heat Resistant
- Typical applications include:
 - Automotive
 - Appliances
 - Electrical/Electronic Applications
 - Engineering/Industrial Parts
 - Tools

General Information				
Features		Alcohol Resistant		
		Aromatic		
		High Heat Resistance		
		Hydrolysis Resistant		
		Platable		
		Renewable Resource Content		
Uses		Appliance Components		
		Automotive Applications		
		Automotive Interior Parts		
		Electrical/Electronic Applications		
		Engineering Parts		
		Hydraulic Applications		
		Pneumatic Applications		
		Power/Other Tools		
Appearance		Black		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.19	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.2	--	%	
Flow	1.8	--	%	
Water Absorption				ISO 62

Saturation, 23°C	2.5	--	%	
Equilibrium, 23°C, 50% RH	1.4	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	140	140	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2700	2800	MPa	ISO 527-2
Tensile Stress (Break)	80.0	75.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	4.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.0	6.0	kJ/m ²	
23°C	6.0	6.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	95	90	kJ/m ²	
23°C	100	95	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	110	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	85.0	--	°C	ISO 75-2/C
Maximum Use Temperature				Internal Method
Long Term	140	--	°C	
Short Term	240	--	°C	
ISO Type	PA10T/X, MH,12-030	--		ISO 1874
Melting Temperature ¹	295	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	8.0E-5	--	cm/cm/°C	
Transverse	8.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+12	1.0E+12	ohms·cm	IEC 60093
Electric Strength	33	33	kV/mm	IEC 60243-1
Comparative Tracking Index	--	400	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
NOTE				
1.	10°C/min			

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