

Grivory® HT3Z black 9564

Polyamide 10T/X Copolymer

EMS-GRIVORY

Message:

Grivory® HT3Z 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 black 9564 are:

- Flame Rated
- Flame Retardant
- Chemical Resistant
- Eco-Friendly/Green
- Good Mold Release
- Typical applications include:
 - Automotive
 - Electrical/Electronic Applications
 - Appliances
 - Engineering/Industrial Parts
 - Lighting Applications

General Information	
Additive	Flame Retardant
Features	Alcohol Resistant
	Aromatic
	Flame Retardant
	Good Flow
	Good Mold Release
	High Heat Resistance
	Hydrolysis Resistant
Uses	Renewable Resource Content
	Appliance Components
	Automotive Applications
	Automotive Electronics
	Automotive Interior Parts
	Cell Phones
	Connectors
	Electrical/Electronic Applications
	Engineering Parts
	Hydraulic Applications
	Lighting Applications
	Pneumatic Applications
Appearance	Power/Other Tools
	Black

Clear/Transparent

Forms	Granules			
Processing Method	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.8	--	%	
Flow	2.0	--	%	
Water Absorption				ISO 62
Saturation, 23°C	2.6	--	%	
Equilibrium, 23°C, 50% RH	1.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	140	140	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2600	2600	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	80.0	80.0	MPa	
Break	60.0	60.0	MPa	
Tensile Strain				ISO 527-2
Yield	6.0	6.0	%	
Break	11	11	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	12	kJ/m ²	
23°C	12	12	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	80	50	kJ/m ²	
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	160	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	115	--	°C	ISO 75-2/A
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	--	600	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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