

Grilamid® TR XE 4139 black 9231

Polyamide
EMS-GRIVORY

Message:

Grilamid® TR XE 4139 black 9231 is a Polyamide material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilamid® TR XE 4139 black 9231 are:

Flame Rated

Good UV Resistance

Heat Resistant

Mold Release Agent

Typical applications include:

Automotive

Engineering/Industrial Parts

Outdoor Applications

Tools

General Information				
Additive		Mold Release		
Features	Aromatic			
	Barrier Resin			
	Good UV Resistance			
	High Heat Resistance			
	Hydrolysis Resistant			
Uses	Automotive Applications			
	Engineering Parts			
	Hydraulic Applications			
	Outdoor Applications			
	Pneumatic Applications			
	Power/Other Tools			
Appearance	Black			
	Clear/Transparent			
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.15	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.70	--	%	
Water Absorption				ISO 62
Saturation, 23°C	7.0	--	%	

Equilibrium, 23°C, 50% RH	2.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	160	160	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2800	2800	MPa	ISO 527-2
Tensile Stress (Yield)	105	95.0	MPa	ISO 527-2
Tensile Strain				ISO 527-2
Yield	7.0	6.0	%	
Break	25	> 50	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	11	12	kJ/m ²	
23°C	11	12	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	135	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	125	--	°C	ISO 75-2/A
Glass Transition Temperature ¹	160	--	°C	ISO 11357-2
CLTE				ISO 11359-2
Flow	6.0E-5	--	cm/cm/°C	
Transverse	6.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+13	ohms·cm	IEC 60093
Electric Strength	27	27	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	V-0	--		IEC 60695-11-10, -20
NOTE				
1.	10°C/min			

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