

Grivory® XE 4185 black 9453

Polyamide 10T/X Copolymer

EMS-GRIVORY

Message:

Grivory® XE 4185 black 9453 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® XE 4185 black 9453 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

Forms	Granules			
Processing Method	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.18	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	2.0	--	%	
Flow	2.0	--	%	
Water Absorption				ISO 62
Saturation, 23°C	3.9	--	%	
Equilibrium, 23°C, 50% RH	1.7	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	150	150	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	3000	MPa	ISO 527-2
Tensile Stress (Break)	60.0	60.0	MPa	ISO 527-2
Tensile Strain (Break)	6.5	12	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	3.0	kJ/m ²	
23°C	5.0	5.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	35	30	kJ/m ²	
23°C	40	35	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	185	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	110	--	°C	ISO 75-2/A
Maximum Use Temperature - Long Term	140	--	°C	Internal Method
ISO Type	PA 10T/X, MHF, 11-030	--		ISO 1874
Melting Temperature ¹	315	--	°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+11	1.0E+11	ohms · cm	IEC 60093
Electric Strength	30	30	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	V	IEC 60112

Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.400 mm	V-0	--		
1.50 mm	V-0	--		
NOTE				
1.	10°C/min			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT