

Grilon TSC-10/4 EC black 9832

PA666-CF

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	9200 / 6500	MPa	ISO 527-1/-2
Stress at break	170 / 120	MPa	ISO 527-1/-2
Strain at break	3 / 7	%	ISO 527-1/-2
Charpy impact strength (+23°C)	50 / 80	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	40 / 40	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5 / 12	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	4 / 4	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	260 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	240 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	110 / -	°C	ISO 75-1/-2
Burning Behav. at thickness h	HB / -	class	IEC 60695-11-10
Thickness tested	0.8 / -	mm	IEC 60695-11-10
Max. usage temperature (long term)	90 - 120	°C	ISO 2578
Max. usage temperature (short term)	200	°C	EMS

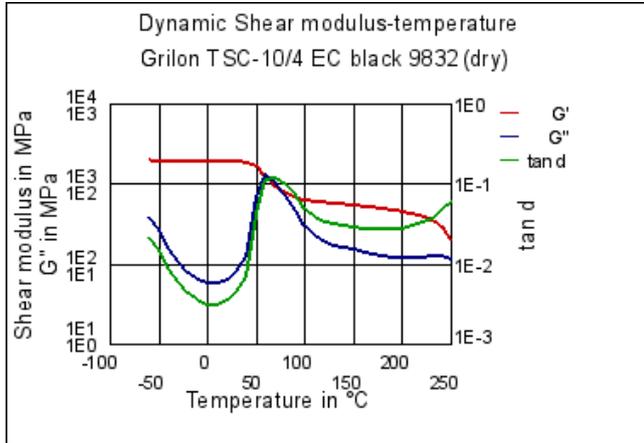
Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1000000 / 1000000	Ohm*m	IEC 60093
Surface resistivity	- / 1E7	Ohm	IEC 60093
Electric strength	6 / 6	kV/mm	IEC 60243-1

Other properties	dry / cond	Unit	Test Standard
Water absorption	5 / -	%	Sim. to ISO 62
Humidity absorption	1.5 / -	%	Sim. to ISO 62
Density	1180 / -	kg/m ³	ISO 1183

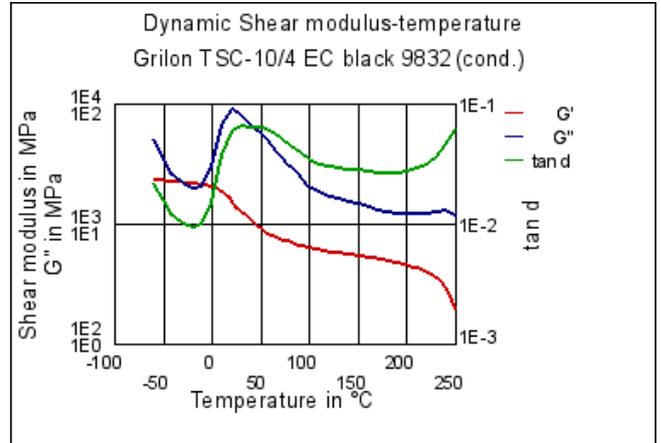
Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.1 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.6 / -	%	ISO 294-4, 2577

Diagrams


Dynamic Shear modulus-temperature



Dynamic Shear modulus-temperature



Characteristics

Processing

Injection Molding

Delivery form

Granules

Special Characteristics

Anti-static

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Chemical Media Resistance

Acids

- 😊 Acetic Acid (5% by mass) (23°C)
- 😊 Citric Acid solution (10% by mass) (23°C)
- 😊 Lactic Acid (10% by mass) (23°C)
- 🚫 Hydrochloric Acid (36% by mass) (23°C)
- 🚫 Nitric Acid (40% by mass) (23°C)
- 🚫 Sulfuric Acid (38% by mass) (23°C)
- 🚫 Sulfuric Acid (5% by mass) (23°C)
- 🚫 Chromic Acid solution (40% by mass) (23°C)

Bases

- 😊 Sodium Hydroxide solution (35% by mass) (23°C)
- 😊 Sodium Hydroxide solution (1% by mass) (23°C)
- 😊 Ammonium Hydroxide solution (10% by mass) (23°C)

Alcohols

- 😊 Isopropyl alcohol (23°C)

Product Attributes

Improved friction & wear properties

Automotive

Automotive electr. and electronics, lighting, Powertrain and Chassis

Electricals & Electronics

Electrical appliances, Electrical equipment

Industry & Consumer goods

Mechanical Engineering, Power transmission, Sports & Leisure, Tools & Accessories



☺ Methanol (23°C)

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Hydrocarbons

☺ n-Hexane (23°C)

☺ Toluene (23°C)

☺ iso-Octane (23°C)

Ketones

☺ Acetone (23°C)

Ethers

☺ Diethyl ether (23°C)

Mineral oils

☺ SAE 10W40 multigrade motor oil (23°C)

☺ SAE 10W40 multigrade motor oil (130°C)

☺ SAE 80/90 hypoid-gear oil (130°C)

☺ Insulating Oil (23°C)

Standard Fuels

☺ ISO 1817 Liquid 1 (60°C)

☺ ISO 1817 Liquid 2 (60°C)

☺ ISO 1817 Liquid 3 (60°C)

☺ ISO 1817 Liquid 4 (60°C)

☺ Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)

☺ Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)

☺ Diesel fuel (pref. ISO 1817 Liquid F) (23°C)

☺ Diesel fuel (pref. ISO 1817 Liquid F) (90°C)

☺ Diesel fuel (pref. ISO 1817 Liquid F) (>90°C)

Salt solutions

☺ Sodium Chloride solution (10% by mass) (23°C)

☹ Sodium Hypochlorite solution (10% by mass) (23°C)

☺ Sodium Carbonate solution (20% by mass) (23°C)

☺ Sodium Carbonate solution (2% by mass) (23°C)

☺ Zinc Chloride solution (50% by mass) (23°C)

Other

☺ Ethyl Acetate (23°C)

☹ Hydrogen peroxide (23°C)

☺ DOT No. 4 Brake fluid (130°C)

☺ Ethylene Glycol (50% by mass) in water (108°C)

☺ 1% nonylphenoxy-polyethyleneoxy ethanol in water (23°C)

☺ 50% Oleic acid + 50% Olive Oil (23°C)

☺ Water (23°C)

☺ Deionized water (90°C)

☹ Phenol solution (5% by mass) (23°C)

