

ISO 294-4, 2577

Page: 1/3

Grilon TSS/4 LF 2 PA666

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

dry / cond	Unit	Test Standard
3300 / 1400	MPa	ISO 527-1/-2
90 / 50	MPa	ISO 527-1/-2
5 / 15	%	ISO 527-1/-2
12 / >50	%	ISO 527-1/-2
70 / -	MPa	ISO 527-1/-2
N / N	kJ/m²	ISO 179/1eU
N / N	kJ/m²	ISO 179/1eU
4/8	kJ/m²	ISO 179/1eA
4 / 4	kJ/m²	ISO 179/1eA
	3300 / 1400 90 / 50 5 / 15 12 / >50 70 / - N / N N / N 4 / 8	3300 / 1400 MPa 90 / 50 MPa 5 / 15 % 12 / >50 % 70 / - MPa N / N kJ/m² N / N kJ/m² 4 / 8 kJ/m²

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	140 / 65	MPa	ISO 2039-1

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)	85 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	65 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	80 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	90 / -	E-6/K	ISO 11359-1/-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)	80 - 100	°C	ISO 2578
Max. usage temperature (short term)	220	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E12/1E10	Ohm*m	IEC 60093
Surface resistivity	- / 1E11	Ohm	IEC 60093
Electric strength	27 / 25	kV/mm	IEC 60243-1
Comparative tracking index	- / 475	-	IEC 60112
Other properties	dry / cond	Unit	Test Standard
Water absorption	5/-	%	Sim. to ISO 62
Humidity absorption	2/-	%	Sim. to ISO 62
Density	1160 / -	kg/m³	ISO 1183
Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.9/-	%	ISO 294-4, 2577

1.0/-

%

Molding shrinkage (normal)

Processing	Product Attributes
Injection Molding	Improved friction & wear properties
Delivery form	Automotive
Granules	Powertrain and Chassis, Interior

Created: 2016-02-01 Source: www.materialdatacenter.com

The values are intended to serve as an aid in preselecting materials and for an overview of the EMS-GRIVORY product range. The information contained in this publication is based on our present knowledge and experience. The given figures and data are guidance values and do not represent binding material specifications. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are given regarding products, design, data and information. The customer is not released from his obligation to investigate the products fitness and the suitability for the intended application, compliance with legal requirements and intellectual property rights. We reserve the right to change the information at any time and without prior notice. The information is not to be considered a contractual obligation and anyliability whatsoever is expressly declined. For further questions about our products please contact our experts.

Characteristics

Page: 2/3

Regional Availability

Chemical Media Resistance

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

Mechanical Engineering, Power transmission, Tools & Accessories

Industry & Consumer goods

Acids

- ٠ Acetic Acid (5% by mass) (23°C)
- ٠ Citric Acid solution (10% by mass) (23°C)
- ۲ Lactic Acid (10% by mass) (23°C)
- 0 Hydrochloric Acid (36% by mass) (23°C)
- Õ Nitric Acid (40% by mass) (23°C)
- Sulfuric Acid (38% by mass) (23°C)
- 0 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

- ٠ Isopropyl alcohol (23°C)
- •• Methanol (23°C)
- •• Ethanol (23°C)

Hydrocarbons

- ••• n-Hexane (23°C)
- Toluene (23°C)
- ••• iso-Octane (23°C)

Ketones

••• Acetone (23°C)

Ethers

٠ Diethyl ether (23°C)

Mineral oils

- ٠ SAE 10W40 multigrade motor oil (23°C)
- SAE 10W40 multigrade motor oil (130°C)
- ٠ SAE 80/90 hypoid-gear oil (130°C)
- •• Insulating Oil (23°C)

Standard Fuels

- ISO 1817 Liquid 1 (60°C)
- ٠ 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)

Created: 2016-02-01 Source: www.materialdatacenter.com

The values are intended to serve as an aid in preselecting materials and for an overview of the EMS-GRIVORY product range. The information contained in this publication is based on our present knowledge and experience. The given figures and data are guidance values and do not represent binding material specifications. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are given regarding products, design, data and information. The customer is not released from his obligation to investigate the products fitness and the suitability for the intended application, compliance with legal requirements and intellectual property rights. We reserve the right to change the information at any time and without prior notice. The information in this publication is not to be considered a contractual obligation and anyliability whatsoever is expressly declined. For further questions about our products please contact our experts.

- Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)
- Uiesel fuel (pref. ISO 1817 Liquid F) (23°C)
- Uiesel fuel (pref. ISO 1817 Liquid F) (90°C)
- Uiesel 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)
- U 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)
- 00 DOT No. 4 Brake fluid (130°C)
- United States (108°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)

Created: 2016-02-01 Source: www.materialdatacenter.com

The values are intended to serve as an aid in preselecting materials and for an overview of the EMS-GRIVORY product range. The information contained in this publication is based on our present knowledge and experience. The given figures and data are guidance values and do not represent binding material specifications. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are given regarding products, design, data and information. The customer is not released from his obligation to investigate the products fitness and the suitability for the intended application, compliance with legal requirements and intellectual property rights. We reserve the right to change the information at any time and without prior notice. The information is not to be considered a contractual obligation and anyliability whatsoever is expressly declined. For further questions about our products please contact our experts.

Page: 3/3