

Grilamid 2S 25 W 20 HL X nat
PA610

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product-nomenclature according to ISO 1874:
PA610-HIP, EH, 22-007

| Mechanical properties | dry / cond | Unit | Test Standard |
|--|------------------------|-------------------|---------------|
| Tensile Modulus | 750 / 450 | MPa | ISO 527-1/-2 |
| Stress at break | 50 / 50 | MPa | ISO 527-1/-2 |
| Strain at break | >50 / >50 | % | ISO 527-1/-2 |
| Charpy impact strength (+23°C) | N / N | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (-30°C) | N / N | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | N / N | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | 15 / 15 | kJ/m ² | ISO 179/1eA |

| Mechanical properties (TPE) | dry / cond | Unit | Test Standard |
|-----------------------------|----------------|------|---------------|
| Ball indentation hardness | 50 / 35 | MPa | ISO 2039-1 |

| Thermal properties | dry / cond | Unit | Test Standard |
|--|----------------|-------|-----------------|
| Melting temperature (10°C/min) | 215 / - | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 50 / - | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 100 / - | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion (parallel) | 200 / - | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal) | 150 / - | 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) | 130 | °C | ISO 2578 |
| Max. usage temperature (short term) | 170 | °C | EMS |

| Electrical properties | dry / cond | Unit | Test Standard |
|----------------------------|-------------------|-------|---------------|
| Volume resistivity | 1E9 / 1E10 | Ohm*m | IEC 60093 |
| Surface resistivity | - / 1E11 | Ohm | IEC 60093 |
| Electric strength | 36 / 36 | kV/mm | IEC 60243-1 |
| Comparative tracking index | - / 600 | - | IEC 60112 |

| Other properties | dry / cond | Unit | Test Standard |
|---------------------|-----------------|-------------------|----------------|
| Water absorption | 3 / - | % | Sim. to ISO 62 |
| Humidity absorption | 0.5 / - | % | Sim. to ISO 62 |
| Density | 1030 / - | kg/m ³ | ISO 1183 |

| Rheo/Phys properties | dry / cond | Unit | Test Standard |
|------------------------------|----------------|------|-----------------|
| Molding shrinkage (parallel) | 1.8 / - | % | ISO 294-4, 2577 |
| Molding shrinkage (normal) | 1.3 / - | % | ISO 294-4, 2577 |

Characteristics

Processing

Other Extrusion, Profile Extrusion

Product Attributes

Flexible, High viscosity, Bio based Polyamide

Delivery form

Granules

Automotive

Air intake systems, Compressed air systems, Hydraulic systems

Additives

Plasticizer

Electricals & Electronics

Cables & Tubes

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Special Characteristics

High impact or impact modified, Light stabilized or stable to light,
Improved UV resistance (outdoor use), Improved heat resistance

Industry & Consumer goods

Hydraulics & Pneumatics

Regional Availability

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