

**Grilon BRZ 347 W**

PA6

EMS-GRIVORY | a unit of EMS-CHEMIE AG

**Product Texts**

Product designation according to ISO 1874:

PA6-HIP, GH1, 32-005

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	<b>600 / 350</b>	MPa	ISO 527-1/-2
Stress at 50% strain	<b>30 / 25</b>	MPa	ISO 527-1/-2
Strain at break	<b>&gt;50 / &gt;50</b>	%	ISO 527-1/-2
Charpy impact strength (+23°C)	<b>N / N</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	<b>N / N</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	<b>110 / N</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	<b>15 / 15</b>	kJ/m <sup>2</sup>	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	<b>35 / 25</b>	MPa	ISO 2039-1

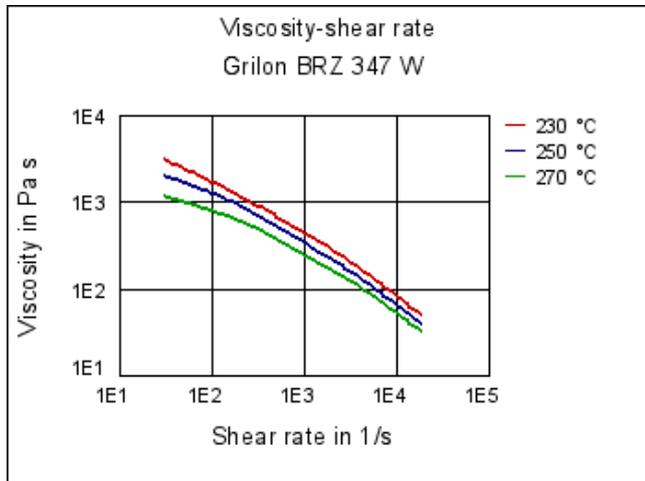
Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	<b>215 / -</b>	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	<b>40 / -</b>	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	<b>80 / -</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	<b>150 / -</b>	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	<b>160 / -</b>	E-6/K	ISO 11359-1/-2
Burning Behav. at thickness h	<b>HB / -</b>	class	IEC 60695-11-10
Thickness tested	<b>0.8 / -</b>	mm	IEC 60695-11-10
Max. usage temperature (long term)	<b>80 - 110</b>	°C	ISO 2578
Max. usage temperature (short term)	<b>150</b>	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	<b>1E12 / 1E11</b>	Ohm*m	IEC 60093
Surface resistivity	<b>- / 1E12</b>	Ohm	IEC 60093
Comparative tracking index	<b>- / 600</b>	-	IEC 60112

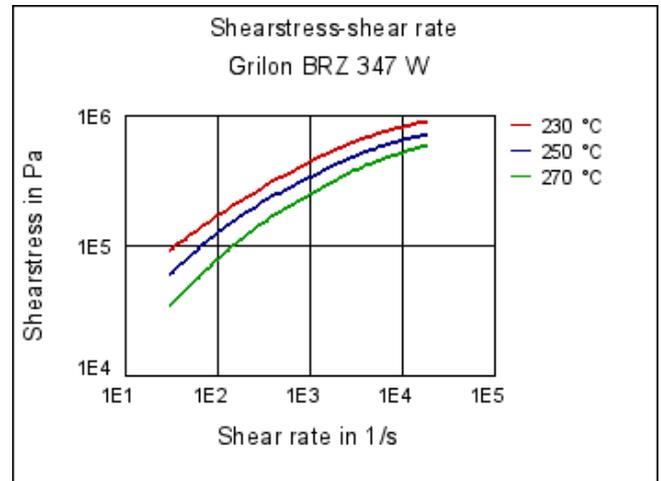
Other properties	dry / cond	Unit	Test Standard
Water absorption	<b>8 / -</b>	%	Sim. to ISO 62
Humidity absorption	<b>2.5 / -</b>	%	Sim. to ISO 62
Density	<b>1070 / -</b>	kg/m <sup>3</sup>	ISO 1183

**Diagrams**

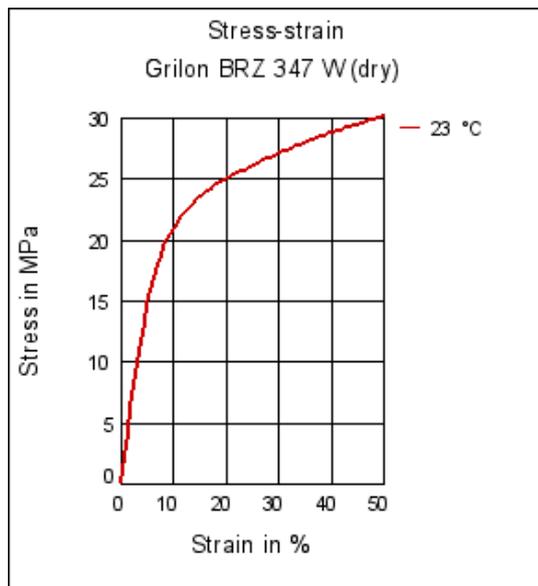

Viscosity-shear rate



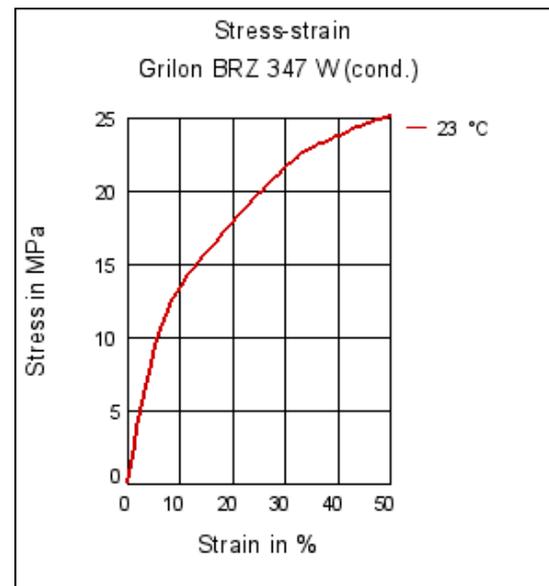
Shearstress-shear rate



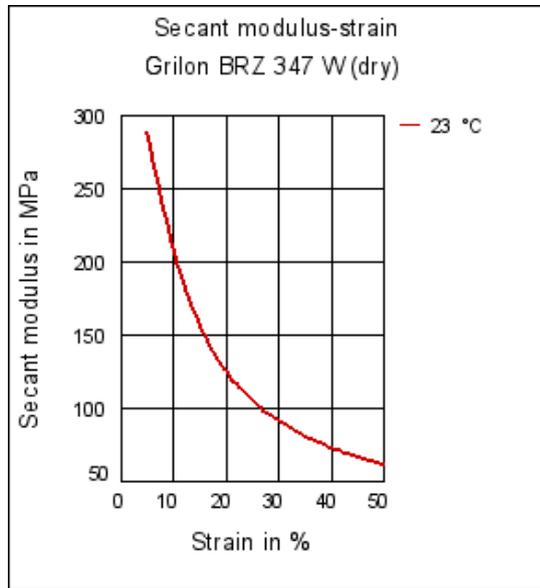
Stress-strain



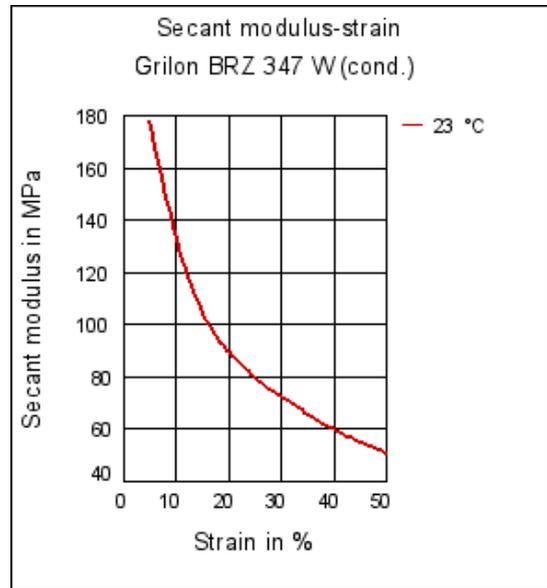
Stress-strain



Secant modulus-strain



Secant modulus-strain



Characteristics

Processing

Other Extrusion

Delivery form

Granules

Additives

Plasticizer

Special Characteristics

High impact or impact modified

Regional Availability

North America, Europe, Asia Pacific

Product Attributes

Flexible

Automotive

Air intake systems, Cooling and climate control

Electricals & Electronics

Cables & Tubes

Industry & Consumer goods

Hydraulics & Pneumatics, Mechanical Engineering, Power transmission

