

Grilon R 47 HW 10

PA6

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	940 / 430	MPa	ISO 527-1/-2
Yield stress	34 / -	MPa	ISO 527-1/-2
Yield strain	16 / -	%	ISO 527-1/-2
Nominal strain at break	>50 / -	%	ISO 527-1/-2
Stress at break	44 / 46	MPa	ISO 527-1/-2
Strain at break	- / >50	%	ISO 527-1/-2
Izod Impact notched (23°C)	- / N	kJ/m ²	ISO 180/1A
Izod Impact notched Temperature	9.6 / 7.5 -30	kJ/m ² °C	ISO 180/1A

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	216 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	47 / -	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	142 / -	°C	ISO 75-1/-2
Vicat softening temperature (50°C/h 50N)	159 / -	°C	ISO 306
Vicat softening temperature A	210	°C	ISO 306
Max. usage temperature (long term)	80 - 110	°C	ISO 2578
Max. usage temperature (short term)	150	°C	EMS

Other properties	dry / cond	Unit	Test Standard
Water absorption	10 / -	%	Sim. to ISO 62
Humidity absorption	2.5 / -	%	Sim. to ISO 62
Density	1100 / -	kg/m ³	ISO 1183

Characteristics
Processing

Other Extrusion

Product Attributes

Flexible, High viscosity, Masterbatch

Delivery form

Granules

Automotive

Air intake systems, Compressed air systems, Hydraulic systems, Cooling and climate control, Fuel systems

Additives

Plasticizer

Electricals & Electronics

Cables & Tubes

Special Characteristics

Improved heat resistance

Industry & Consumer goods

Hydraulics & Pneumatics

