

Grilon EBV-15H black 9697

PA6-GF15

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

 Product designation according to ISO 1874:
 PA 6-HI, BH, 27-060, GF15

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	5600 / 2700	MPa	ISO 527-1/-2
Stress at break	110 / 65	MPa	ISO 527-1/-2
Strain at break	5 / 25	%	ISO 527-1/-2
Charpy impact strength (+23°C)	80 / N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	80 / 80	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	15 / 30	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	6 / 8	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	145 / 70	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	222 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	165 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	50 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	50 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	120 / -	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)	100 - 120	°C	ISO 2578
Max. usage temperature (short term)	180	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E11 / 1E9	Ohm*m	IEC 60093
Surface resistivity	- / 1E10	Ohm	IEC 60093
Electric strength	26 / 22	kV/mm	IEC 60243-1
Comparative tracking index	- / 325	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	8 / -	%	Sim. to ISO 62
Humidity absorption	2.5 / -	%	Sim. to ISO 62
Density	1210 / -	kg/m ³	ISO 1183

Characteristics
Processing

Extrusion - blow molding, Other Extrusion

Automotive

Air intake systems, Cooling and climate control

Delivery form

Granules

Electricals & Electronics

Cables & Tubes

Special Characteristics

Improved heat resistance

Industry & Consumer goods

Hydraulics & Pneumatics

