

Grilamid LC-15H black

PA12-CF15

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA12, MHR, 18-080, CF15

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	9500 / 7500	MPa	ISO 527-1/-2
Stress at break	110 / 100	MPa	ISO 527-1/-2
Strain at break	4.5 / 5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	- / 40	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	- / 40	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	- / 10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	- / 5	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	- / 100	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	178 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	160 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	100 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	10 / -	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)	90 - 120	°C	ISO 2578
Max. usage temperature (short term)	150	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	- / 100	Ohm*m	IEC 60093
Surface resistivity	- / 50	Ohm	IEC 60093

Other properties	dry / cond	Unit	Test Standard
Water absorption	1.1 / -	%	Sim. to ISO 62
Humidity absorption	0.7 / -	%	Sim. to ISO 62
Density	1070 / -	kg/m ³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.2 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.5 / -	%	ISO 294-4, 2577

Characteristics

Processing

Injection Molding

Delivery form

Granules

Special Characteristics

Anti-static, High impact or impact modified, Improved UV resistance (outdoor use)

Regional Availability

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

Electricals & Electronics

Mobile phones and other portable devices

Industry & Consumer goods

Mechanical Engineering, Medical devices, Power transmission,



Sports & Leisure, Tools & Accessories

