

Grilamid LBV-25H black 9472

PA12

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product nomenclature acc. ISO 1874: PA 12+X, MHR, 18-060, GF25

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	6000 / 5800	MPa	ISO 527-1/-2
Stress at break	115 / 110	MPa	ISO 527-1/-2
Strain at break	3 / 3	%	ISO 527-1/-2
Charpy impact strength (+23°C)	75 / 60	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	15 / 11	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	9 / 8	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Shore D hardness (15s)	82 / 82	-	ISO 868

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)	140 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	65 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	30 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	110 / -	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 - 110	°C	ISO 2578
Max. usage temperature (short term)	140	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E11 / 1E11	Ohm*m	IEC 60093
Surface resistivity	- / 1E12	Ohm	IEC 60093
Electric strength	32 / 32	kV/mm	IEC 60243-1
Comparative tracking index	600 / 600	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	1.1 / -	%	Sim. to ISO 62
Humidity absorption	0.6 / -	%	Sim. to ISO 62
Density	1190 / -	kg/m ³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.1 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.5 / -	%	ISO 294-4, 2577

Characteristics
Processing

Injection Molding

Automotive

Interior, Exterior

Delivery form

Granules

Electricals & Electronics

Mobile phones and other portable devices

Special Characteristics

Light stabilized or stable to light

Industry & Consumer goods

Sports & Leisure

Regional Availability