

Product Texts

Product designation according to ISO 1874:
PA 610, EM, 18-020

Bio based Polyamide

Product Attributes

High viscosity, Improved heat resistance

Markets

Industry & Consumer goods

Housewares, Mechanical Engineering, Tools & Accessories

Approvals

Food Contact

EU Requirements, FDA

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	1.3 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.4 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2200 / 1300	MPa	ISO 527
^[C] Yield stress	65 / 50	MPa	ISO 527
^[C] Yield strain	5 / 20	%	ISO 527
^[C] Nominal strain at break	>50 / >50	%	ISO 527
^[C] Charpy notched impact strength, +23°C	7 / 13	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	5 / 5	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	223 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	55 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	140 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	110 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	90 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion -40°C to +100°C, parallel	110	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion -40°C to +100°C, normal	90	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	1E8 / 1E9	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E10	Ohm	IEC 62631-3-2
^[C] Electric strength	35 / 30	kV/mm	IEC 60243-1
^[C] Comparative tracking index	- / 600	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	3.9 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.7 / *	%	Sim. to ISO 62

Grilamid 2S 20 natural

PA610

EMS-GRIVORY | a unit of EMS-CHEMIE AG

[C] Density

1080 / -

kg/m³

ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding, Film Extrusion, Profile Extrusion, Sheet Extrusion, Other Extrusion

Delivery form

Granules, Natural Color

Special Characteristics

Light stabilized or stable to light, Heat stabilized or stable to heat

Certifications

Contains renewable resources, Food contact, Food approval
FDA 21 CFR

Regional Availability

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