

Grilamid® 2S 20 nat

Polyamide 610

EMS-GRIVORY

Message:

Grilamid® 2S 20 nat is a Polyamide 610 (Nylon 610) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for cast film or extrusion.

Important attributes of Grilamid® 2S 20 nat are:

Flame Rated

Eco-Friendly/Green

High Viscosity

Typical applications include:

Engineering/Industrial Parts

Film

Household Applications

Tools

General Information				
Features		High Viscosity		
		Renewable Resource Content		
Uses		Cast Film		
		Engineering Parts		
		Household Goods		
		Power/Other Tools		
Appearance		Natural Color		
Forms		Granules		
Processing Method		Cast Film		
		Extrusion		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.08	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.4	--	%	
Flow	1.3	--	%	
Water Absorption				ISO 62
Saturation, 23°C	3.9	--	%	
Equilibrium, 23°C, 50% RH	1.7	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	128	82.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2200	1300	MPa	ISO 527-2
Tensile Stress (Yield)	65.0	50.0	MPa	ISO 527-2

Tensile Strain (Yield)	5.0	20	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	5.0	kJ/m ²	
23°C	7.0	13	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	140	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	--	°C	ISO 75-2/A
Maximum Use Temperature				Internal Method
Long Term	80	--	°C	
Short Term	150	--	°C	
ISO Type	PA 610, EM, 18-020	--		ISO 1874
Melting Temperature ¹	223	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.1E-4	--	cm/cm/°C	
Transverse	9.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+10	1.0E+11	ohms·cm	IEC 60093
Electric Strength	35	30	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
NOTE				
1.	10°C/min			

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