

Grilamid® 2S 25 W 20 HL X nat

Polyamide 610

EMS-GRIVORY

Message:

Grilamid® 2S 25 W 20 HL X nat is a Polyamide 610 (Nylon 610) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion or profile extrusion.

Important attributes of Grilamid® 2S 25 W 20 HL X nat are:

- Flame Rated
- Plasticized
- Eco-Friendly/Green
- Good Flexibility
- Heat Resistant
- Typical applications include:
 - Automotive
 - Electrical/Electronic Applications
 - Hose/Tubing
 - Outdoor Applications
 - Wire & Cable

General Information				
Additive	Plasticizer			
Features	Good Flexibility			
	High Heat Resistance			
	High Impact Resistance			
	High Viscosity			
	Plasticized			
	Renewable Resource Content			
Uses	Automotive Applications			
	Electrical/Electronic Applications			
	Hydraulic Applications			
	Outdoor Applications			
	Pneumatic Applications			
	Profiles			
	Tubing			
	Wire & Cable Applications			
Appearance	Natural Color			
Forms	Granules			
Processing Method	Extrusion			
	Profile Extrusion			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.03	--	g/cm³	ISO 1183

Molding Shrinkage				ISO 294-4
Across Flow	1.3	--	%	
Flow	1.8	--	%	
Water Absorption				ISO 62
Saturation, 23°C	3.0	--	%	
Equilibrium, 23°C, 50% RH	0.50	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	50.0	35.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	750	450	MPa	ISO 527-2
Tensile Stress (Break)	50.0	50.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	15	15	kJ/m ²	
23°C	No Break	No Break		
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	125	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	--	°C	ISO 75-2/A
Maximum Use Temperature				Internal Method
Long Term	130	--	°C	
Short Term	160	--	°C	
ISO Type	PA610-HIP, EH, 22-007	--		ISO 1874
Melting Temperature ¹	215	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-4	--	cm/cm/°C	
Transverse	1.5E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+11	1.0E+12	ohms·cm	IEC 60093
Electric Strength	36	36	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
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NOTE

- 10°C/min

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