

Grilamid® 2S 25 W 20 X nat

Polyamide 610

EMS-GRIVORY

Message:

Grilamid® 2S 25 W 20 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 X nat are:

Flame Rated

Good Flexibility

Good UV Resistance

High Viscosity

Impact Modified

Typical application of Grilamid® 2S 25 W 20 X nat: Automotive

General Information	
Additive	Impact Modifier Plasticizer
Features	Good Flexibility Good UV Resistance High Impact Resistance High Viscosity Impact Modified Light Stabilized
Uses	Automotive Applications Hydraulic Applications
Appearance	Natural Color
Forms	Granules
Processing Method	Extrusion Profile Extrusion

Physical	Dry	Conditioned	Unit	Test Method
Density	1.03	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.7	--	%	
Flow	2.3	--	%	
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)	40.0	40.0	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	115	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	110 to 130	--	°C	
-- ²	160	--	°C	
Melting Temperature ³	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	38	37	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
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA610HIP, EH, 22-007	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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