

Grilamid® L 25 W 40 HL X

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® L 25 W 40 HL X is a Polyamide 12 (Nylon 12) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion.

Important attributes of Grilamid® L 25 W 40 HL X are:

Flame Rated

RoHS Compliant

Plasticized

Good Flexibility

Heat Stabilizer

Typical applications include:

Automotive

Consumer Goods

Industrial Applications

General Information				
Additive		Heat Stabilizer		
		Plasticizer		
		UV Stabilizer		
Features		Good Flexibility		
		Good Impact Resistance		
		Heat Stabilized		
		High Viscosity		
		Plasticized		
Uses		Automotive Applications		
		Consumer Applications		
		Hydraulic Applications		
		Industrial Applications		
		Pneumatic Applications		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Extrusion		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.02	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.2	--	%	
Flow	0.90	--	%	
Water Absorption				ISO 62
Saturation, 23°C	1.4	--	%	

Equilibrium, 23°C, 50% RH	0.70	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	--	63		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	380	360	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	--	25.0	MPa	
Break	40.0	40.0	MPa	
Tensile Strain				ISO 527-2
Yield	--	20	%	
Break	> 50	--	%	
Nominal Tensile Strain at Break	--	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	--	10	kJ/m ²	
23°C	--	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	95.0	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	45.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	80.0 to 110	--	°C	
-- ²	150	--	°C	
Melting Temperature ³	173	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.4E-4	--	cm/cm/°C	
Transverse	1.8E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	--	1.0E+13	ohms·cm	IEC 60093
Electric Strength	--	32	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	PA12-HIP, EHL, 22-004	--	ISO 1874
NOTE			
1.	Long Term		
2.	Short Term		
3.	10°C/min		

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