

Grilamid® L 25 W 40 NZ

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® L 25 W 40 NZ 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 NZ are:

RoHS Compliant

Plasticized

Good Flexibility

High Viscosity

Impact Resistant

Typical applications include:

Automotive

Consumer Goods

Industrial Applications

General Information				
Additive	Plasticizer			
Features	Good Flexibility			
	High Viscosity			
	Plasticized			
	Ultra High Impact Resistance			
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	1.00	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	1.4	--	%	
Equilibrium, 23°C, 50% RH	0.70	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	--	25.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	300	250	MPa	ISO 527-2
Tensile Stress				ISO 527-2

Yield	--	20.0	MPa	
Break	45.0	30.0	MPa	
Tensile Strain				ISO 527-2
Yield	--	45	%	
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	12	13	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	50.0	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	40.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	80.0	--	°C	
-- ²	110	--	°C	
Melting Temperature ³	173	--	°C	ISO 11357-3
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
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA12-P, EHL, 22-002	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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