

Grilon® ELX 40 HNZ

Polyamide 6X

EMS-GRIVORY

Message:

Grilon® ELX 40 HNZ is a Polyamide 6X (Nylon 6X) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for blow molding or extrusion.

Important attributes of Grilon® ELX 40 HNZ are:

Flame Rated

RoHS Compliant

Heat Stabilizer

Impact Modified

Typical applications include:

Automotive

Consumer Goods

Electrical/Electronic Applications

Hose/Tubing

Industrial Applications

General Information				
Additive		Heat Stabilizer		
		Impact Modifier		
Features		Heat Stabilized		
		Impact Modified		
Uses		Automotive Applications		
		Blow Molding Applications		
		Consumer Applications		
		Electrical/Electronic Applications		
		Hydraulic Applications		
		Industrial Applications		
		Pneumatic Applications		
		Tubing		
		Wire & Cable Applications		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Blow Molding		
		Extrusion		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.03	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	

Flow	0.70	--	%	
Water Absorption				ISO 62
Saturation, 23°C	6.5	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	58	50		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	550	250	MPa	ISO 527-2
Tensile Stress (50% Strain)	21.0	16.0	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	25	25	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	60.0	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	45.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	100 to 120	--	°C	
-- ²	180	--	°C	
Melting Temperature ³	210	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.6E-4	--	cm/cm/°C	
Transverse	1.7E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+11	1.0E+10	ohms·cm	IEC 60093
Electric Strength	28	26	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	PA 6/X-HI, BGH, 32-005	--		ISO 1874

NOTE

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|----|------------|
| 1. | Long Term |
| 2. | Short Term |
| 3. | 10°C/min |

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

