

Grilon® R 50 H NZ

Polyamide 6

EMS-GRIVORY

Message:

Grilon® R 50 H NZ is a Polyamide 6 (Nylon 6) 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® R 50 H NZ are:

- Flame Rated
- RoHS Compliant
- Heat Stabilizer
- High Viscosity
- 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		
		High Viscosity		
		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	1.07	--	g/cm ³	ISO 1183

Water Absorption				ISO 62
Saturation, 23°C	9.0	--	%	
Equilibrium, 23°C, 50% RH	3.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	90.0	30.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1800	600	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	50.0	--	MPa	
50% Strain	--	25.0	MPa	
Tensile Strain				ISO 527-2
Yield	5.0	--	%	
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	25	25	kJ/m ²	
23°C	95 kJ/m ²	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	105	--	°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	222	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.3E-4	--	cm/cm/°C	
Transverse	1.4E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+14	1.0E+13	ohms · cm	IEC 60093
Comparative Tracking Index	--	475	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-HI, GH, 34-020	--	ISO 1874
NOTE			
1.	Long Term		
2.	Short Term		
3.	10°C/min		

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