

Grilon® BR 40 W

Polyamide 6
EMS-GRIVORY

Message:

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

Important attributes of Grilon® BR 40 W are:

- Flame Rated
- RoHS Compliant
- Plasticized
- High Viscosity
- Medium Viscosity

Typical applications include:

- Automotive
- Consumer Goods
- Electrical/Electronic Applications
- Engineering/Industrial Parts
- Hose/Tubing

General Information				
Additive		Plasticizer		
Features	High Viscosity			
	Medium Viscosity			
	Plasticized			
Uses	Automotive Applications			
	Consumer Applications			
	Electrical/Electronic Applications			
	Engineering Parts			
	Hydraulic Applications			
	Industrial Applications			
	Pneumatic Applications			
	Power/Other Tools			
	Tubing			
	Wire & Cable Applications			
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method	Extrusion			
	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.12	--	g/cm ³	ISO 1183
Water Absorption				ISO 62

Saturation, 23°C	8.0	--	%	
Equilibrium, 23°C, 50% RH	2.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	55.0	30.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1300	500	MPa	ISO 527-2
Tensile Stress (Yield)	40.0	30.0	MPa	ISO 527-2
Tensile Strain (Yield)	35	40	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	3.0	kJ/m ²	
23°C	15 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	110	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	45.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	70.0 to 90.0	--	°C	
-- ²	160	--	°C	
Melting Temperature ³	220	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.1E-4	--	cm/cm/°C	
Transverse	1.6E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+12	ohms·cm	IEC 60093
Electric Strength	26	22	kV/mm	IEC 60243-1
Comparative Tracking Index	--	450	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	PA6-P, E, 24-010	--		ISO 1874
NOTE				

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

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