

Grilon® BFZ 3

Polyamide 6

EMS-GRIVORY

Message:

Grilon® BFZ 3 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, extrusion, injection molding, or injection stretch blow molding.

Important attributes of Grilon® BFZ 3 are:

- Flame Rated
- RoHS Compliant
- Food Contact Acceptable
- Good Flexibility
- Impact Modified
- Typical applications include:
 - Food Contact Applications
 - Consumer Goods
 - Containers
 - Electrical/Electronic Applications
 - Engineering/Industrial Parts

General Information	
Additive	Impact Modifier
Features	Barrier Resin
	Food Contact Acceptable
	Good Flexibility
	Impact Modified
Uses	Blow Molding Applications
	Blown Containers
	Consumer Applications
	Electrical/Electronic Applications
	Engineering Parts
	Hydraulic Applications
	Industrial Applications
	Packaging
	Pneumatic Applications
	Power/Other Tools
	Tubing
	Wire & Cable Applications
Agency Ratings	EU Food Contact, Unspecified Rating
	FDA Food Contact, Unspecified Rating
RoHS Compliance	RoHS Compliant
Forms	Granules

Processing Method	Blow Molding Extrusion Injection Molding Injection Stretch Blow Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.06	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.4	--	%	
Flow	1.1	--	%	
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	95.0	40.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1800	600	MPa	ISO 527-2
Tensile Stress (Yield)	50.0	25.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	15	%	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	15	15	kJ/m ²	
23°C	65	120	kJ/m ²	
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	130	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	80.0 to 110	--	°C	
-- ²	160	--	°C	
Melting Temperature ³	222	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.3E-4	--	cm/cm/°C	
Transverse	1.5E-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
Electric Strength	42	39	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	PA6-HI, MHR, 18-020N	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

