

Grilon® BM 20 SBG

Polyamide 66/610 Copolymer

EMS-GRIVORY

Message:

Grilon® BM 20 SBG is a Polyamide 66/610 Copolymer (Nylon 66/610) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for blown film, cast film, extrusion, or film extrusion.

Important attributes of Grilon® BM 20 SBG are:

- RoHS Compliant
- Copolymer
- Food Contact Acceptable
- High Viscosity
- Typical applications include:
 - Film
 - Coating Applications
 - Food Contact Applications
 - Packaging

General Information			
Features	Barrier Resin		
	Copolymer		
	Food Contact Acceptable		
	High Viscosity		
Uses	Cast Film		
	Coating Applications		
	Film		
	Non-oriented Film		
	Oriented Film		
	Packaging		
Agency Ratings	EU Food Contact, Unspecified Rating		
	FDA Food Contact, Unspecified Rating		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
Forms	Granules		
Processing Method	Blown Film		
	Cast Film		
	Extrusion		
	Film Extrusion		
Multi-Point Data	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method

Density	1.09	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	40.0	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	6.0	%	
Equilibrium, 23°C, 50% RH	2.5	%	
Films	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-3
MD : Yield	30.0	MPa	
TD : Yield	28.0	MPa	
MD : Break	70.0	MPa	
TD : Break	60.0	MPa	
Tensile Elongation			ISO 527-3
MD : Yield	10	%	
TD : Yield	10	%	
MD : Break	900	%	
TD : Break	900	%	
Elmendorf Tear Strength			ISO 6383-2
MD	20	N	
TD	20	N	
Trouser Tear Resistance			ISO 6383-1
MD	50.0	N/mm	
TD	75.0	N/mm	
Water Vapor Transmission Rate (23°C, 85% RH)	20	g/m ² /24 hr	DIS 15106-1/-2
Oxygen Transmission Rate			DIS 15105-1/-2
23°C ¹	25	cm ³ /m ² /bar/24 hr	
23°C ²	70	cm ³ /m ² /bar/24 hr	
Carbon Dioxide Transmission Rate			DIS 15105-1/-2
23°C ³	250	cm ³ /m ² /bar/24 hr	
23°C ⁴	80.0	cm ³ /m ² /bar/24 hr	
Gelboflex test	200	holes/m ²	Internal Method
ISO Type	PA 66/610, FT, 18-030		ISO 1874
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ⁵	200	°C	ISO 11357-3
Optical	Nominal Value		Test Method
Gloss (60°)	130		ISO 2813
NOTE			
1.	0% RH		
2.	85% RH		
3.	85% RH		
4.	0% RH		
5.	10°C/min		

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