

Grilon® BRZ 334 H

Polyamide 6

EMS-GRIVORY

Message:

Grilon® BRZ 334 H is a Polyamide 6 (Nylon 6) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion.

Important attributes of Grilon® BRZ 334 H are:

Flame Rated

RoHS Compliant

Good Flexibility

Heat Stabilizer

Impact Modified

Typical applications include:

Automotive

Consumer Goods

Electrical/Electronic Applications

Engineering/Industrial Parts

Hose/Tubing

General Information				
Additive		Heat Stabilizer		
		Impact Modifier		
Features		Good Flexibility		
		Heat Stabilized		
		Impact Modified		
		Medium Viscosity		
Uses		Automotive Applications		
		Consumer Applications		
		Electrical/Electronic Applications		
		Engineering Parts		
		Hydraulic Applications		
		Industrial Applications		
		Pneumatic Applications		
		Tubing		
		Wire & Cable Applications		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Extrusion		
Multi-Point Data		Shear Modulus vs. Temperature (ISO 11403-1)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.00	--	g/cm ³	ISO 1183

Water Absorption				ISO 62
Saturation, 23°C	5.0	--	%	
Equilibrium, 23°C, 50% RH	1.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	63	55		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	950	300	MPa	ISO 527-2
Tensile Stress (50% Strain)	40.0	20.0	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	85	85	kJ/m ²	
23°C	100 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	55.0	--	°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	222	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.2E-4	--	cm/cm/°C	
Transverse	1.4E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+9	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+10	ohms·cm	IEC 60093
Electric Strength	26	22	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, GHR, 24-010 N	--		ISO 1874
NOTE				

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

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