

Durethan® BM 29 X H2.0 EF 900116

Polyamide 6

LANXESS Asia/Pacific

Message:

PA 6, 30 % glass fibers/mineral, injection molding, improved flowability, heat-aging stabilized

General Information				
Filler / Reinforcement	Glass\Mineral,30% Filler by Weight			
Additive	Heat Stabilizer			
Features	Good Flow			
	Heat Stabilized			
Agency Ratings	EC 1907/2006 (REACH)			
Processing Method	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.36	--	g/cm ³	ISO 1183
Apparent Density	0.80	--	g/cm ³	ISO 60
Molding Shrinkage				ISO 2577
Across Flow : 280°C, 2.00 mm ¹	0.63	--	%	
Across Flow : 120°C, 4 hr, 2.00 mm ²	0.18	--	%	
Flow : 280°C, 2.00 mm ³	0.45	--	%	
Flow : 120°C, 4 hr, 2.00 mm ⁴	0.12	--	%	
Water Absorption				ISO 62
Saturation, 23°C	7.0	--	%	
Equilibrium, 23°C, 50% RH	2.2	--	%	
Viscosity Number	95.0	--	cm ³ /g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	189	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	6500	--	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	110	--	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.0	--	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	6400	--	MPa	ISO 178/A
Flexural Stress				ISO 178/A
3.5% Strain,23°C	175	--	MPa	
23°C ⁶	180	--	MPa	
Flexural Strain at Flexural Strength ⁷ (23°C)	4.0	--	%	ISO 178/A

ISO Shortname	PA 6, GHR, 10-060, (GF+MD) 30-			ISO 1874
Residual Moisture Content	0.030 to 0.12		%	Karl Fisher
Impact	Dry	Conditioned	Unit	Test Method
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	30	35	kJ/m ²	
23°C	35	110	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-30°C	< 10	< 10	kJ/m ²	
23°C	< 10	< 10	kJ/m ²	
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	25	30	kJ/m ²	
23°C	30	95	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	210	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	185	--	°C	ISO 75-2/A
Vicat Softening Temperature	> 200	--	°C	ISO 306/B120
Melting Temperature ⁸	222	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C	4.0E-5	--	cm/cm/°C	
Transverse : 23 to 55°C	8.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	425	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Injection	Dry	Unit	Test Method	
Drying Temperature - Dry Air Dryer	80.0		°C	
Drying Time - Dry Air Dryer	2.0 to 6.0		hr	
Processing (Melt) Temp	270 to 290		°C	
Mold Temperature	80.0 to 100		°C	
NOTE				
1.	60x60x2mm, 80°C MT, 600 bar			
2.	60x60x2mm			
3.	60x60x2mm, 80°C MT, 600 bar			
4.	60x60x2mm			
5.	2.0 mm/min			

6.	2.0 mm/min
7.	2 mm/min
8.	10°C/min

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