

Durethan® BKV 30 EF 000000

Polyamide 6

LANXESS GmbH

Message:

PA 6, 30 % glass fibers, injection molding, improved flowability

General Information				
UL YellowCard		E245249-473588		
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Good Flow		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.35	--	g/cm ³	ISO 1183
Apparent Density	0.60	--	g/cm ³	ISO 60
Molding Shrinkage				ISO 2577
Across Flow : 260°C, 2.00 mm ¹	0.58	--	%	
Across Flow : 120°C, 4 hr, 2.00 mm ²	0.14	--	%	
Flow : 260°C, 2.00 mm ³	0.23	--	%	
Flow : 120°C, 4 hr, 2.00 mm ⁴	0.050	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	190	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				
23°C	9020	5530	MPa	ASTM D638
23°C	9300	5700	MPa	ISO 527-2/1
Tensile Strength				
Break, 23°C	174	97.2	MPa	ASTM D638
Break, 23°C	180	100	MPa	ISO 527-2/5
Tensile Elongation				
Break, 23°C	3.2	5.6	%	ASTM D638
Break, 23°C	3.0	6.0	%	ISO 527-2/5
Flexural Modulus				
23°C	7800	5100	MPa	ASTM D790
23°C ⁵	8400	6000	MPa	ISO 178/A
Flexural Strength				
23°C	270	170	MPa	ASTM D790
3.5% Strain,23°C	250	155	MPa	ISO 178/A
23°C ⁶	265	180	MPa	ISO 178/A

Flexural Strain at Flexural Strength ⁷ (23°C)	4.0	5.3	%	ISO 178/A
ISO Shortname	PA 6, GR, 10-090, GF30	--		ISO 1874
Residual Moisture Content	0.030 to 0.12		%	Karl Fisher
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	10	kJ/m ²	
23°C	12	18	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	50	45	kJ/m ²	
23°C	65	85	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-30°C	10	10	kJ/m ²	
23°C	10	15	kJ/m ²	
Unnotched Izod Impact Strength				ISO 180/1U
-40°C	45	40	kJ/m ²	
23°C	60	80	kJ/m ²	
Multi-Axial Instrumented Impact Energy				ISO 6603-2
-30°C	2.80	--	J	
23°C	2.90	--	J	
Multi-Axial Instrumented Impact Peak Force				ISO 6603-2
-30°C	797	--	N	
23°C	813	--	N	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	150	--	°C	ISO 75-2/C
Vicat Softening Temperature	210	--	°C	ISO 306/B120
Melting Temperature ⁸	220	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C	2.0E-5	--	cm/cm/°C	
Transverse : 23 to 55°C	1.0E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	550	--	V	IEC 60112
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	250 to 290	°C
Mold Temperature	80.0 to 120	°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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