Durethan® BKV 130 H2.0 DUS008 901510

Polyamide 6

LANXESS GmbH

Message:

PA 6, 30 % glass fibers, injection molding, improved impact strength, heat-aging stabilized

General Information				
UL YellowCard	E245249-100868024			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight			
Additive	Heat Stabilizer			
Features	Good Impact Resistance Heat Stabilized			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density (23°C)	1.36	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 2577
Across Flow : 280°C, 2.00 mm [1]	0.80	--	%	
Across Flow : 120°C, 4 hr, 2.00 mm [2]	0.10	--	%	
Flow : 280°C, 2.00 mm [3]	0.30	--	%	
Flow : 120°C, 4 hr, 2.00 mm [4]	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	6.6	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	9300	5200	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	160	100	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.4	8.0	%	ISO 527-2/5
Flexural Modulus [5] (23°C)	8600	4700	MPa	ISO 178/A
Flexural Stress				ISO 178/A
3.5% Strain,23°C	240	125	MPa	
23°C [6]	250	155	MPa	
Flexural Strain at Flexural Strength [7] (23°C)	4.3	6.7	%	ISO 178/A
ISO Shortname	PA 6-HI, GHR, 14-090, 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/m²	
23°C	13	20	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	75	75	kJ/m²	
23°C	90	90	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
-30°C	< 10	< 10	kJ/m²	
23°C	15	22	kJ/m²	
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	70	70	kJ/m²	
23°C	80	85	kJ/m²	
Multi-Axial Instrumented Impact Energy				ISO 6603-2
-30°C	2.50	--	J	
23°C	4.30	--	J	
Multi-Axial Instrumented Impact Peak Force				ISO 6603-2
-30°C	765	--	N	
23°C	990	--	N	

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	218	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	202	--	°C	ISO 75-2/A
Vicat Softening Temperature	212	--	°C	ISO 306/B120
Melting Temperature [8]	221	--	°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	

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	260 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

Recommended distributors for this material

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