

Durethan® BKV 115 H2.0 DUS008 000000

Polyamide 6

LANXESS GmbH

Message:

PA 6, 15% glass fibers, injection molding, improved impact strength, heat-aging stabilized

General Information			
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Impact Resistance		
	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.23	g/cm ³	ISO 1183
Molding Shrinkage			ISO 2577
Across Flow : 280°C, 2.00 mm ¹	0.60	%	
Across Flow : 120°C, 4 hr, 2.00 mm ²	0.20	%	
Flow : 280°C, 2.00 mm ³	0.50	%	
Flow : 120°C, 4 hr, 2.00 mm ⁴	0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	5900	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	114	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	4.1	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	5100	MPa	ISO 178/A
Flexural Stress			ISO 178/A
3.5% Strain, 23°C	155	MPa	
23°C ⁶	175	MPa	
Flexural Strain at Flexural Strength ⁷ (23°C)	5.6	%	ISO 178/A
ISO Shortname	PA 6-HI, GHR, 14-060, GF15		ISO 1874
Residual Moisture Content	0.030 to 0.12	%	Karl Fisher
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	< 10	kJ/m ²	
-30°C	< 10	kJ/m ²	
23°C	< 10	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	45	kJ/m ²	
23°C	65	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A

-30°C	< 10	kJ/m ²	
23°C	< 10	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	35	kJ/m ²	
23°C	55	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	214	°C	ISO 75-2/B
1.8 MPa, Unannealed	188	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow : 23 to 55°C	3.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	1.0E-4	cm/cm/°C	
Injection	Nominal Value	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		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

