

Durethan® BKV 55 TPX 900116

Polyamide 6

LANXESS GmbH

Message:

PA 6, 55 % glass fibers, injection molding, improved flowability, heat-aging stabilized

General Information				
Filler / Reinforcement		Glass Fiber,55% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Flow		
		Heat Stabilized		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.62	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 2577
Across Flow : 280°C, 2.00 mm ¹	0.50	--	%	
Across Flow : 120°C, 4 hr, 2.00 mm ²	0.10	--	%	
Flow : 280°C, 2.00 mm ³	0.20	--	%	
Flow : 120°C, 4 hr, 2.00 mm ⁴	0.10	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	17300	10500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	215	140	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.5	3.5	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	16500	11000	MPa	ISO 178/A
Flexural Stress				ISO 178/A
3.5% Strain,23°C	--	210	MPa	
23°C ⁶	330	210	MPa	
Flexural Strain at Flexural Strength ⁷ (23°C)	3.0	3.5	%	ISO 178/A
ISO Shortname	PA6, GHR, 10-190, GF55	--		ISO 1874
Residual Moisture Content	0.030 to 0.12		%	Karl Fisher
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	20	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	90	85	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength				ISO 180/1A

-30°C	15	20	kJ/m ²	
23°C	15	20	kJ/m ²	
Unnotched Izod Impact Strength (23°C)	90	85	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	218	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	208	--	°C	ISO 75-2/A
Melting Temperature ⁸	221	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C	1.2E-5	--	cm/cm/°C	
Transverse : 23 to 55°C	9.0E-5	--	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	270 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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