

Durethan® BTC 65 H3.0 EF 901510

Polyamide 6

LANXESS GmbH

Message:

PA 6, 65% mineral, injection molding, improved heat conductivity

General Information			
Filler / Reinforcement	Mineral filler, 65% filler by weight		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	2.01	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction: 280°C, 2.00mm ¹	0.68	%	ISO 294-4
Vertical flow direction: 120°C, 2 hours, 2.00mm ²	0.18	%	ISO 294-4
Flow direction: 280°C, 2.00mm ³	0.66	%	ISO 294-4
Flow direction: 120°C, 2 hours, 2.00mm ⁴	0.16	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	9900	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	90.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2/5
Nominal Tensile Strain at Break (23°C)	3.0	%	ISO 527-2/50
Flexural Modulus ⁵ (23°C)	10600	MPa	ISO 178/A
Flexural Stress ⁶ (23°C)	160	MPa	ISO 178
Flexural Strain at Flexural Strength ⁷ (23°C)	3.0	%	
ISO Shortname	PA6, GHR, 10-090, MD65		ISO 1874
Residual Moisture Content	0.030 - 0.12	%	Karl Fisher
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	< 10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	35	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ⁸	221	°C	ISO 11357-3
Thermal Conductivity ⁹	1.0	W/m/K	ISO 22007-4
Injection	Nominal Value	Unit	Test Method
Drying Temperature - Dry Air Dryer	80.0	°C	
Drying Time - Dry Air Dryer	2.0 - 6.0	hr	
Processing (Melt) Temp	280 - 300	°C	
Mold Temperature	80.0 - 120	°C	
NOTE			
1.	60x60x2; MT 80°C; 600 Bar		

2.	60x60x2
3.	60x60x2; MT 80°C; 600 Bar
4.	60x60x2
5.	2.0 mm/min
6.	2.0 mm/min
7.	Pull Rate: 2 mm/min; 50% RH
8.	10°C/min
9.	Through-Plane

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