

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		
Features		Heat conduction		
Agency Ratings		EC 1907/2006 (REACH)		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	2.01	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 2577
Vertical flow direction: 280°C, 2.00mm ¹	0.68	--	%	ISO 2577
Vertical flow direction: 120°C, 4 hours, 2.00mm ²	0.18	--	%	ISO 2577
Flow direction: 280°C, 2.00mm ³	0.66	--	%	ISO 2577
Flow direction: 120°C, 4 hours, 2.00mm ⁴	0.16	--	%	ISO 2577
Water Absorption (Saturation, 23°C)	3.4	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	9900	3500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	90.0	45.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.0	4.5	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	10200	--	MPa	ISO 178/A
Flexural Stress ⁶ (23°C)	150	--	MPa	ISO 178/A
Flexural Strain at Flexural Strength ⁷ (23°C)	3.0	--	%	ISO 178/A
ISO Shortname	PA6, GHR, 10-090, MD65	--		ISO 1874
Residual Moisture Content	0.030 - 0.12		%	Karl Fisher
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	< 10	< 10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	35	25	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ⁸	221	--	°C	ISO 11357-3
Thermal Conductivity				ISO 22007-4
-- ⁹	1.0	--	W/m/K	ISO 22007-4

-- 10	1.3	--	W/m/K	ISO 22007-4
Injection	Dry	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.	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			
9.	Through-plane			
10.	With Flow			

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