

Ultramid® D3EG10 FC Aqua BK23285

Polyamide

BASF Corporation

Message:

Ultramid® D3EG10 FC Aqua SCHWARZ 23285 is applicable for plastic parts, where the approvals of material for drinking water contact and direct food contact is a mandatory requirement.

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Features		Food Contact Acceptable		
Agency Ratings		ACS Unspecified Rating		
		DVGW W270		
		EC 1907/2006 (REACH)		
		EC 2023/2006		
		EU 10/2011		
		FDA 21 CFR 177.1500		
		FDA 21 CFR 178.3297		
		KTW Unspecified Rating		
		NSF Unspecified Rating		
		WRAS Unspecified Rating		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.58	--	g/cm³	ISO 1183
Apparent Density	0.70	--	g/cm³	
Molding Shrinkage				ISO 294-4
Across Flow	0.65	--	%	
Flow	0.25	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.3	--	%	
Equilibrium, 23°C, 50% RH	1.2	--	%	
Viscosity Number (96% H2SO4 (Sulphuric Acid))	120	--	cm³/g	ISO 307
Mold Shrinkage - constrained ¹	0.10	--	%	
Polymer Abbreviation	PA-GF50	--		
Mechanical	Dry	Conditioned	Unit	Test Method

Tensile Modulus	16000	16000	MPa	ISO 527-2
Tensile Stress (Break)	245	210	MPa	ISO 527-2
Tensile Strain (Break)	2.5	2.5	%	ISO 527-2
Tensile Creep Modulus ² (1000 hr)	--	10300	MPa	ISO 899-1
Flexural Modulus	15700	--	MPa	ISO 178
Flexural Stress	350	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	--	kJ/m ²	
23°C	12	11	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	90	--	kJ/m ²	
23°C	95	85	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	225	--	°C	ISO 75-2/A
Melting Temperature	250	--	°C	ISO 11357-3
CLTE - Flow (23 to 55°C)	1.5E-5	--	cm/cm/°C	ISO 11359-2
Specific Heat	1100	--	J/kg/°C	
Thermal Conductivity	0.34	--	W/m/K	DIN 52612
Injection	Dry	Unit		
Drying Temperature	110		°C	
Drying Time	8.0		hr	
Suggested Max Moisture	0.15		%	
Processing (Melt) Temp	280 to 310		°C	
Mold Temperature	80.0 to 120		°C	
NOTE				

1.	Test box with central gating, dimensions of base (107*47*1,5) mm, processing condition: TM = 320°C (unreinforced) or 330°C (reinforced), TW = 80°C
2.	strain <= 0.5%, 23°C

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