

Stanyl® Diablo OCD2100 BK27021

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® Diablo OCD2100 BK27021 is a Polyamide 46 (Nylon 46) material filled with 40% glass fiber. It is available in Asia Pacific, Europe, or North America. Primary attribute of Stanyl® Diablo OCD2100 BK27021: Heat Stabilizer.

General Information				
Filler / Reinforcement		Glass Fiber,40% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.48	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.50	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.2	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
--	13000	7000	MPa	
120°C	5000	--	MPa	
160°C	4600	--	MPa	
180°C	4200	--	MPa	
200°C	3400	--	MPa	
Tensile Stress				ISO 527-2
Break	210	125	MPa	
Break, 120°C	100	--	MPa	
Break, 160°C	85.0	--	MPa	
Break, 180°C	75.0	--	MPa	
Break, 200°C	60.0	--	MPa	
Tensile Strain				ISO 527-2
Break	3.0	8.0	%	
Break, 120°C	10	--	%	
Break, 160°C	11	--	%	
Break, 180°C	12	--	%	
Break, 200°C	13	--	%	
Flexural Modulus				ISO 178
--	13000	7000	MPa	
120°C	5000	--	MPa	
160°C	4600	--	MPa	

180°C	4200	--	MPa	
200°C	3400	--	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	12	kJ/m ²	
23°C	15	25	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	65	75	kJ/m ²	
23°C	90	110	kJ/m ²	
Notched Izod Impact Strength (23°C)	15	25	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	256	--	°C	ISO 75-2/A
Melting Temperature	282	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.5E-5	--	cm/cm/°C	
Transverse	5.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index	300	--	V	IEC 60112
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0 to 8.0		hr	
Rear Temperature	270 to 290		°C	
Middle Temperature	280 to 300		°C	
Front Temperature	295 to 305		°C	
Nozzle Temperature	280 to 300		°C	
Processing (Melt) Temp	295 to 305		°C	
Mold Temperature	80.0 to 120		°C	
Injection Rate	Moderate-Fast			
Back Pressure	2.00 to 10.0		MPa	
Screw Compression Ratio	2.5:1.0			

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