

Stanyl® Diablo OCD2300 BLK

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® Diablo OCD2300 BLK is a Polyamide 46 (Nylon 46) material filled with 50% glass fiber. It is available in Europe. Primary attribute of Stanyl® Diablo OCD2300 BLK: Heat Stabilizer.

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.62	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.40	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.2	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
--	17000	8000	MPa	
120°C	6900	--	MPa	
160°C	6100	--	MPa	
180°C	5600	--	MPa	
200°C	4500	--	MPa	
Tensile Stress				ISO 527-2
Break	240	135	MPa	
Break, 120°C	110	--	MPa	
Break, 160°C	90.0	--	MPa	
Break, 180°C	75.0	--	MPa	
Break, 200°C	60.0	--	MPa	
Tensile Strain				ISO 527-2
Break	2.4	6.3	%	
Break, 120°C	7.5	--	%	
Break, 160°C	8.5	--	%	
Break, 180°C	9.0	--	%	
Break, 200°C	9.5	--	%	
Flexural Modulus				ISO 178
--	17000	8000	MPa	
120°C	6900	--	MPa	
160°C	6100	--	MPa	

180°C	5600	--	MPa	
200°C	4500	--	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	14	14	kJ/m ²	
23°C	17	30	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	80	95	kJ/m ²	
23°C	95	110	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ¹	282	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.5E-5	--	cm/cm/°C	
Transverse	4.0E-5	--	cm/cm/°C	
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			
NOTE				
1.	10°C/min			

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