

Zytel® PLUS PLS90G30DR BK099

NYLON RESIN

DuPont Performance Polymers

Message:

30% Glass Reinforced, Hydrolysis Resistant, Polyamide 66

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Features		Hydrolysis resistance		
RoHS Compliance		Contact manufacturer		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Shear Modulus vs. Temperature, Dynamic (ISO 11403-1)		
		Tensile Modulus vs. Temperature (ISO 11403-1)		
		Tensile Modulus vs. Temperature, Dynamic (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA66-GF30		
Resin ID (ISO 1043)		PA66-GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	0.90	--	%	ISO 294-4
Flow	0.20	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C, 2.00mm	6.0	--	%	ISO 62
Balance, 23°C, 2.00mm, 50% RH	1.9	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9500	7000	MPa	ISO 527-2
Tensile Stress (Break)	190	140	MPa	ISO 527-2
Tensile Strain (Break)	3.5	5.8	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	13	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	90	90	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	252	--	°C	ISO 75-2/A
Melting Temperature ¹	263	--	°C	ISO 11357-3

Linear thermal expansion coefficient				ISO 11359-2
Flow	1.5E-5	--	cm/cm/°C	ISO 11359-2
Lateral	1.0E-4	--	cm/cm/°C	ISO 11359-2
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ² (1.00 mm)	< 100	--	mm/min	ISO 3795
Flammability Classification (1.5 mm)	HB	--		IEC 60695-11-10, -20
FMVSS Flammability	B	--		FMVSS 302
Melt Temperature, Optimum	290		°C	
Mold Temperature, Optimum	100		°C	
Drying Recommended	yes			
Hold Pressure Time	3.00		s/mm	
Maximum Screw Tangential Speed	200		mm/sec	
Fill Analysis	Dry	Conditioned	Unit	
Ejection Temperature	210	--	°C	
Injection	Dry	Unit		
Drying Temperature	80		°C	
Drying Time - Desiccant Dryer	2.0 - 4.0		hr	
Suggested Max Moisture	0.20		%	
Processing (Melt) Temp	280 - 300		°C	
Mold Temperature	70 - 120		°C	
Holding Pressure	50.0 - 100		MPa	
NOTE				
1.	10°C/min			
2.	FMVSS 302			

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