

Zytel® 70K20HSL NC010

NYLON RESIN
DuPont Performance Polymers

Message:
Kevlar® Fiber Reinforced, Heat Stabilized, Polyamide 66

General Information				
Filler / Reinforcement		Kevlar Fiber,20% Filler by Weight		
Additive		Heat Stabilizer		
		Lubricant		
		Mold Release		
Features		Heat Stabilized		
		Lubricated		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Tensile Modulus vs. Temperature, Dynamic (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA66-AF20<		
Resin ID (ISO 1043)		PA66-AF20		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.19	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.4	--	%	
Flow	0.90	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	6.8	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	2.7	--	%	
Viscosity Number	135	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5300	3500	MPa	ISO 527-2
Tensile Stress (Break)	110	85.0	MPa	ISO 527-2
Tensile Strain (Break)	5.2	7.2	%	ISO 527-2
Flexural Modulus	4900	3300	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA

-30°C	5.0	--	kJ/m ²	
23°C	6.0	9.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	--	kJ/m ²	
23°C	50	65	kJ/m ²	
Notched Izod Impact Strength (23°C)				ISO 180/1A
5.0		7.0	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	255	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	222	--	°C	ISO 75-2/A
Glass Transition Temperature ¹	80.0	--	°C	ISO 11357-2
Vicat Softening Temperature	240	--	°C	ISO 306/B50
Melting Temperature ²	263	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	4.7E-5	--	cm/cm/°C	
Transverse	7.5E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+11	--	ohms·cm	IEC 60093
Electric Strength	23	--	kV/mm	IEC 60243-1
Dissipation Factor				IEC 60250
100 Hz	0.014	--		
1 MHz	0.014	--		
NOTE				
1.	10°C/min			
2.	10°C/min			

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