

UBE Nylon 1015GC9

Polyamide 6

UBE Engineering Plastics, S.A.

Message:

UBE Nylon 1015GC9 is a Polyamide 6 (Nylon 6) product filled with 45% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

- Flame Rated
- Chemical Resistant
- Heat Resistant
- High Strength
- Impact Resistant

General Information				
UL YellowCard		E173981-238518	E173981-238520	E48133-240234
Filler / Reinforcement		Glass Fiber,45% Filler by Weight		
Features		Good Abrasion Resistance		
		Good Chemical Resistance		
		Good Impact Resistance		
		High Heat Resistance		
		High Rigidity		
		High Strength		
		Oil Resistant		
		Self Lubricating		
		Solvent Resistant		
		Sound Damping		
		Vibration Damping		
Uses		Metal Replacement		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.50	--	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10 to 0.50	--	%	ASTM D955
Water Absorption (Saturation)	5.5	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	105	--		
R-Scale	120	115		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength (Yield)	200	130	MPa	ASTM D638
Tensile Elongation (Yield)	4.0	5.0	%	ASTM D638

Flexural Modulus	11800	6100	MPa	ASTM D790
Flexural Strength (Yield)	284	157	MPa	ASTM D790
Compressive Strength	30.4	19.6	MPa	ASTM D695
Shear Strength	94.1	68.6	MPa	ASTM D732
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-30°C	120	150	J/m	
23°C	150	250	J/m	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	215	--	°C	ASTM D648
Melting Temperature	215 to 225	--	°C	
CLTE - Flow	2.0E-5	--	cm/cm/°C	ASTM D696
RTI Elec (0.794 mm)	65.0	--	°C	UL 746
RTI Imp (0.794 mm)	65.0	--	°C	UL 746
RTI Str (0.794 mm)	65.0	--	°C	UL 746
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	ASTM D257
Dielectric Constant				ASTM D150
60 Hz	4.30	--		
1 MHz	3.90	--		
Dissipation Factor				ASTM D150
60 Hz	0.010	--		
1 MHz	0.010	--		
Arc Resistance (0.794 mm)	138	--	sec	ASTM D495
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.794 mm)	HB	--		UL 94
Injection	Dry	Unit		
Suggested Max Moisture	0.10		%	
Rear Temperature	240		°C	
Middle Temperature	265		°C	
Front Temperature	275		°C	
Nozzle Temperature	275		°C	
Processing (Melt) Temp	285		°C	
Mold Temperature	70.0 to 80.0		°C	
Injection Pressure	83.2		MPa	
Back Pressure	9.80		MPa	
Screw Speed	100 to 130		rpm	

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