Zytel® RS 30G30L NC010

RENEWABLY SOURCED™ POLYAMIDES*

DuPont Performance Polymers

Message:

30% Glass Reinforced, Renewably Sourced, Polyamide 610 Developed for Extrusion

General Information	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Additive	Lubricant Mold Release UV Stabilizer
Features	Lubricated
Forms	Pellets
Processing Method	Injection Molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Shear Modulus vs. Temperature (ISO 11403-1) Shear Stress vs. Shear Rate (ISO 11403-1) Tensile Modulus vs. Temperature (ISO 11403-1) Viscosity vs. Shear Rate (ISO 11403-2)
Part Marking Code (ISO 11469)	>PA610-GF30<
Resin ID (ISO 1043)	PA610-GF30

Physical	Dry	Conditioned	Unit	Test Method
Density	1.31	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.20	--	%	
Water Absorption (Equilibrium, 23°C, 2.00 mm, 50% RH)	1.2	--	%	ISO 62

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8500	6500	MPa	ISO 527-2
Tensile Stress (Break)	160	130	MPa	ISO 527-2
Tensile Strain (Break)	5.0	7.0	%	ISO 527-2

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	17	17	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	95	95	kJ/m²	ISO 179/1eU

Notched Izod Impact Strength (23°C)	16	17	kJ/m²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	--	°C	ISO 75-2/A
Glass Transition Temperature [1]	50.0	--	°C	ISO 11357-2
Melting Temperature [2]	224	--	°C	ISO 11357-3
Fill Analysis	Dry	Conditioned	Unit	
Melt Density	1.16	--	g/cm³	
Specific Heat Capacity of Melt	2280	--	J/kg/°C	
Thermal Conductivity of Melt	0.26	--	W/m/K	
NOTE				
1.	10°C/min			
2.	10°C/min			

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