

Zytel® RS 30G30HSL BK038A

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		Heat Stabilizer		
		Lubricant		
		Mold Release		
Features		Heat Stabilized		
		Lubricated		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		Shear Stress vs. Shear Rate (ISO 11403-1)		
		Specific Volume vs Temperature (ISO 11403-2)		
		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/cm ³	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	8100	6800	MPa	ISO 527-2
Tensile Stress (Break)	140	130	MPa	ISO 527-2
Tensile Strain (Break)	3.6	6.5	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	80	95	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	12	16	kJ/m ²	ISO 180/1A

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	207	--	°C	ISO 75-2/A
Glass Transition Temperature ¹	50.0	--	°C	ISO 11357-2
Melting Temperature ²	225	--	°C	ISO 11357-3
Fill Analysis	Dry	Conditioned	Unit	Test Method
Melt Density	1.16	--	g/cm ³	
Melt Viscosity (250°C, 1000 sec ⁻¹)	360	--	Pa·s	ISO 11443
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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

