

Zytel® RS 3261TL NC010

RENEWABLY SOURCED™ POLYAMIDES*

DuPont Performance Polymers

Message:

Toughened, Renewably Sourced, Polyamide 610 Developed for Injection Molding

General Information				
Additive		Lubricant		
		Mold Release		
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)		
		Tensile Modulus vs. Temperature (ISO 11403-1)		
		Tensile Modulus vs. Temperature, Dynamic (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA610-I<		
Resin ID (ISO 1043)		PA610-I		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.03	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.2	--	%	
Flow	1.8	--	%	
Water Absorption (Equilibrium, 23°C, 2.00 mm, 50% RH)	1.2	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1500	800	MPa	ISO 527-2
Tensile Stress (Yield)	40.0	32.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.5	30	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C, Partial Break)	75	95	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Notched Izod Impact Strength (23°C, Partial Break)	70	80	kJ/m ²	ISO 180/1A

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	100	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	--	°C	ISO 75-2/A
Glass Transition Temperature ¹	60.0	--	°C	ISO 11357-2
Melting Temperature ²	223	--	°C	ISO 11357-3
NOTE				
1.	10°C/min			
2.	10°C/min			

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