

Amilan® U625X21

Polyamide 66
Toray Resin Company

Message:

Amilan® U625X21 is a Polyamide 66 (Nylon 66) product. It is available in Asia Pacific, Europe, or North America. Primary characteristic: impact resistant.

General Information				
Features		Soft Ultra High Impact Resistance		
Part Marking Code		>PA66-I<		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.08	--	g/cm ³	ISO 1183
Molding Shrinkage - Across Flow ¹ (3.00 mm)	2.0 to 2.1	--	%	Internal Method
Water Absorption				ISO 62
23°C, 24 hr	1.3	--	%	
Saturation, 23°C	7.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale, 80°C)	114	--		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress				ISO 527-2
-40°C	80.0	--	MPa	
23°C	55.0	40.0	MPa	
Tensile Strain				ISO 527-2
Break, -40°C	20	--	%	
Break, 23°C	40	50	%	
Flexural Modulus				ISO 178
-40°C	2400	--	MPa	
23°C	1900	700	MPa	
Flexural Stress				ISO 178
-40°C	105	--	MPa	
23°C	70.0	35.0	MPa	
Taber Abrasion Resistance (1000 Cycles)	7.00 to 8.00	--	mg	ISO 9352
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-40°C	14	--	kJ/m ²	
23°C	89	100	kJ/m ²	

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	63.0	--	°C	ISO 75-2/A
Melting Temperature	265	--	°C	DSC
CLTE - Flow	1.0E-4 to 1.1E-4	--	cm/cm/°C	ISO 11359-2
NOTE				
1.	80x80x3			

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