

Amilan® U328

Polyamide 66
Toray Resin Company

Message:

Amilan® U328 is a Polyamide 66 (Nylon 66) product. It is available in Asia Pacific, Europe, or North America. Primary characteristic: impact resistant.

General Information				
Features		Low Temperature Impact Resistance		
		Ultra High Impact Resistance		
Part Marking Code		>PA66-I<		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.07	--	g/cm ³	ISO 1183
Molding Shrinkage - Across Flow ¹ (3.00 mm)	1.2 to 1.8	--	%	Internal Method
Water Absorption				ISO 62
23°C, 24 hr	1.1	--	%	
Saturation, 23°C	6.0	--	%	
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	45.0	MPa	
Tensile Strain				ISO 527-2
Break, -40°C	16	--	%	
Break, 23°C	62	87	%	
Flexural Modulus				ISO 178
-40°C	2300	--	MPa	
23°C	1800	600	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	31	--	kJ/m ²	
23°C	130	130	kJ/m ²	

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	217	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	67.0	--	°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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