

Amilan® U320

Polyamide 66
Toray Resin Company

Message:

Amilan® U320 is a Polyamide 66 (Nylon 66) product. It is available in Asia Pacific, Europe, or North America. Primary characteristic: impact resistant.

General Information				
UL YellowCard		E41797-233456		
Features		High Impact Resistance		
Part Marking Code		>PA66-I<		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.09	--	g/cm ³	ISO 1183
Molding Shrinkage - Across Flow ¹ (3.00 mm)	1.2 to 1.5	--	%	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	100	92.0	MPa	
23°C	60.0	43.0	MPa	
Tensile Strain				ISO 527-2
Break, -40°C	5.5	8.5	%	
Break, 23°C	30	50	%	
Flexural Modulus				ISO 178
-40°C	2600	2600	MPa	
23°C	2000	800	MPa	
Flexural Stress				ISO 178
-40°C	115	110	MPa	
23°C	75.0	40.0	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	20	kJ/m ²	
23°C	22	57	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	180	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	--	°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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