

Amilan® U141

Polyamide 6
Toray Resin Company

Message:

Amilan® U141 is a Polyamide 6 (Nylon 6) product. It is available in Asia Pacific, Europe, or North America. Primary characteristic: impact resistant.

General Information				
UL YellowCard		E41797-233455		
Features		Ultra High Impact Resistance		
Part Marking Code		>PA6-I<		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.06	--	g/cm ³	ISO 1183
Molding Shrinkage - Across Flow ¹ (3.00 mm)	0.80 to 1.3	--	%	Internal Method
Water Absorption				ISO 62
23°C, 24 hr	0.70	--	%	
Saturation, 23°C	6.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	112	--		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress				ISO 527-2
-40°C	80.0	68.0	MPa	
23°C	50.0	32.0	MPa	
Tensile Strain				ISO 527-2
Break, -40°C	16	22	%	
Break, 23°C	50	50	%	
Flexural Modulus				ISO 178
-40°C	2300	2300	MPa	
23°C	1500	700	MPa	
Flexural Stress				ISO 178
-40°C	65.0	90.0	MPa	
23°C	55.0	33.0	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	34	37	kJ/m ²	
23°C	110	130	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	155	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	--	°C	ISO 75-2/A
Melting Temperature	225	--	°C	DSC
CLTE - Flow	7.0E-5 to 8.0E-5	--	cm/cm/°C	ISO 11359-2
NOTE				
1.	80x80x3			

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