



Prospector

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Combined Data Sheet

Wednesday, April 16, 2008

Iupilon® ML300

Mitsubishi Engineering-Plastics Corp - Polycarbonate

Actions

 Unit System:

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General Information

General

Material Status

- Commercial: Active

Availability

- Asia Pacific
- Europe
- North America

Features

- Viscosity, Low

Forms

- Pellets

ASTM and ISO Properties

Physical

[Density](#)

Nominal Value	Unit	Test Method
1.20	g/cm ³	ISO 1183

[Melt Mass-Flow Rate \(MFR\)](#) (300°C/1.2 kg)

16	g/10 min	ISO 1133
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[Melt Volume-Flow Rate \(MVR\)](#) (300°C/1.2 kg)

0.915	in ³ /10min	ISO 1133
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[Molding Shrinkage](#)

		ISO 294-4
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(MD, 0.126 in)

0.50 to 0.70	%	
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(TD, 0.126 in)

0.50 to 0.70	%	
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[Water Absorption](#) (73 °F, 24 hr)

0.24	%	ISO 62
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Mechanical

[Tensile Modulus](#)

Nominal Value	Unit	Test Method
363000	psi	ISO 527-1, -2

[Tensile Stress](#) (Yield)

8990	psi	ISO 527-1, -2
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[Tensile Strain](#) (Yield)

6.6	%	ISO 527-1, -2
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[Nominal Tensile Strain at Break](#)

120	%	ISO 527-1, -2
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[Flexural Modulus](#)

334000	psi	ISO 178
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[Flexural Strength](#)

13200	psi	ISO 178
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Impact

[Charpy Notched Impact Strength](#) (73 °F)

Nominal Value	Unit	Test Method
30.5	ft·lb/in ²	ISO 179

[Charpy Unnotched Impact Strength](#) (73 °F)

No Break		ISO 179
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Thermal

[Heat Deflection Temperature](#) (66 psi, Unannealed)

Nominal Value	Unit	Test Method
282	°F	ISO 75B-1, -2

[Heat Deflection Temperature](#) (264 psi, Unannealed)

255	°F	ISO 75A-1, -2
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Coefficient of Linear Thermal Expansion, Flow	0.000035	in/in/°F	ISO 11359-1, -2
Coefficient of Linear Thermal Expansion, Transverse	0.000041	in/in/°F	ISO 11359-1, -2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	4.0E+15	ohms	IEC 60093
Volume Resistivity	3.0E+16	ohm·cm	IEC 60093
Relative Permittivity			IEC 60250
(100 Hz)	3.10		
(1E+6 Hz)	3.10		
Dissipation Factor			IEC 60250
(100 Hz)	0.000700		
(1E+6 Hz)	0.00900		
Comparative Tracking Index	250	V	IEC 60112
Electric Strength			IEC 60243-1
(0.0394 in)	790	V/mil	
(0.118 in)	430	V/mil	

Notes

¹Typical properties: these are not to be construed as specifications.

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