

Friday, March 09, 2007

# Vitamide® AS10VN1357/1F

## Jackdaw Polymers - Polyamide 66

Unit System:

## Actions

Legend ([Open](#))

### General Information

#### General

Material Status	• Commercial: Active
Availability	• Europe
Test Standards Available	• ASTM • ISO
Appearance	• Natural Color
Forms	• Pellets

### ASTM and ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density -Specific Gravity	1.13	sp gr 23/23°C	ASTM D792
Density	1.13	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage			ISO 294-4
(Flow)	1.5	%	
(Transverse)	1.5	%	
Water Absorption @ 24 hrs (73 °F)	1.5	%	ASTM D570
Water Absorption 24h/23C	1.5	%	ISO 62
Water Absorption @ Sat.	8.0	%	ASTM D570
Water Absorption Sat/23C	8.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	435000	psi	ASTM D638
Tensile Modulus	435000	psi	ISO 527-1, -2
Tensile Strength @ Break	10900	psi	ASTM D638
Tensile Stress at Break	10900	psi	ISO 527-1, -2
Tensile Elongation @ Brk	30	%	ASTM D638
Tensile Strain at Break	30	%	ISO 527-1, -2
Flexural Modulus	406000	psi	ASTM D790
Flexural Modulus	406000	psi	ISO 178
Flexural Strength	15200	psi	ISO 178
Flexural Strength @ Break	15200	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength <sup>2</sup>	2.38	ft·lb/in <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
DTUL @66psi - Unannealed	374	°F	ASTM D648

HDT B (0.45 MPa) Unannealed	374 °F	ISO 75B-1, -2
DTUL @264psi - Unannealed	158 °F	ASTM D648
HDT A (1.80 MPa) Unannealed	158 °F	ISO 75A-1, -2
Vicat Softening Temperature (B50(50°C/h 50N))	446 °F	ISO 306
Melting Point	500 °F	
CLTE, Flow	0.000039 in/in/°F	ASTM D696

<b>Electrical</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Volume Resistivity	1.0E+15 ohm-cm	ASTM D257
Volume Resistivity	1.0E+15 ohm-cm	IEC 60093
Dielectric Strength	686 V/mil	ASTM D149
Comp Track Index (A)	600 V	IEC 60112
Electric Strength	690 V/mil	IEC 60243-1
<b>Flammability</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Flame Rating - UL	V-2	UL 94
Limiting Oxygen Index	27 %	ASTM D2863
Limiting Oxygen Index	27 %	ISO 4589-1, -2

**Additional Properties**

Comparative Tracking Index, ASTM D3638, Solution A: 600 V

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Type 1, Notch A



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