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View additional material information including performance and processing data

The information presented on the UL Prospector datasheet was acquired by UL Prospector from the producer of the material. UL Prospector makes substantial efforts to assure the accuracy of this data. However, UL Prospector assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

E70062

Component - Plastics

[Guide Information](#)

ASCEND PERFORMANCE MATERIALS, LLC

3000 OLD CHEMSTRAND ROAD, CANTONMENT FL 32533-8900

20NSP(a)(h)(f2), 21SPF(a)(h)(f2), 21SPM(a)(h)(f2), 21SPC(a)(h) (f2)

Polyamide 66 (PA66) "VYDYNE", furnished as pellets

Color	Min. Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	0.40	V-2	4	1	130	75	75
	0.71	V-2	4	0	130	75	85
	1.0	V-2	4	0	130	75	85
	1.5	V-2	3	0	130	75	85
	3.0	V-2	2	0	130	75	85

Comparative Tracking Index (CTI): 0

Inclined Plane Tracking (IPT) kV: 1

Dielectric Strength (kV/mm): 26

Volume Resistivity (10^x ohm-cm): 13

High-Voltage Arc Tracking Rate (HVTR): 0

High Volt, Low Current Arc Resis (D495): 5

Dimensional Stability (%): 1.6

RoHS 2011/65/EU Compliant Material (color: NC, BK) [view certificate](#)

UL 746H Non-Halogenated Material (color: NC, BK)

(a) - Virgin and regrind up to 50% by weight have the same basic material characteristics. Outdoor and HWI ratings does not apply to regrind material.

(f2) - Subjected to one or more of the following tests: Ultraviolet Light, Water Exposure or Immersion in accordance with UL 746C, where the acceptability for outdoor use is to be determined by UL.

(h) - Material has been evaluated with respect to mechanical property retention following exposure to standard automotive chemicals.

Note - Material designation may be followed by an alpha numeric color designation

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

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IEC and ISO Test Methods				
Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.40	V-2 (ALL)
			0.71	V-2 (ALL)
			1.0	V-2 (ALL)
			1.5	V-2 (ALL)
			3.0	V-2 (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	°C	0.40	960
			0.71	960
			1.0	960
			1.5	960
			3.0	960
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	°C	0.40	825
			0.71	850
			1.0	850
			1.5	850
			3.0	850
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	°C	-	240
ISO Heat Deflection (1.80 MPa)	ISO 75-2	°C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m ²	-	-
ISO Izod Impact	ISO 180	kJ/m ²	-	-
ISO Charpy Impact	ISO 179-2	kJ/m ²	-	-