Component - Plastics

File Number: E70062

ASCEND PERFORMANCE MATERIALS, LLC
3000 OLD CHEMSTRAND ROAD, CANTONMENT FL 32533-8900

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

Polyamide 66 (PA66), pellets

(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.

Flammability	Value	Test Method
Flame Rating		UL 94 IEC 60695-11-10, -20
0.40 mm, ALL	V-2	
0.71 mm, ALL	V-2	
1.0 mm, ALL	V-2	
1.5 mm, ALL	V-2	
3.0 mm, ALL	V-2	
Glow Wire Flammability Index		IEC 60695-2-12
0.40 mm	960 °C	
0.71 mm	960 °C	
1.0 mm	960 °C	
1.5 mm	960 °C	
3.0 mm	960 °C	
Glow Wire Ignition Temperature		IEC 60695-2-13
0.40 mm	825 °C	
0.71 mm	850 °C	
1.0 mm	850 °C	
1.5 mm	850 °C	
3.0 mm	850 °C	
Electrical	**Value**	**Test Method**
Hot-wire Ignition (HWI)		UL 746
0.40 mm	PLC 4	
0.71 mm	PLC 4	
1.0 mm	PLC 4	
1.5 mm	PLC 3	
3.0 mm	PLC 2	
High Amp Arc Ignition (HAI)		UL 746
0.40 mm	PLC 1	
0.71 mm	PLC 0	
1.0 mm	PLC 0	
1.5 mm	PLC 0	
3.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 0	UL 746
Dielectric Strength	26 kV/mm	ASTM D149 IEC 60243-1
High Voltage Arc Tracking Rate (HVTR)	PLC 0	UL 746

Form Number: E70062-249058

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Electrical	Value	Test Method
Inclined-Plane Tracking (1.0 kV)	120 min	ASTM D2303
Volume Resistivity	1.0E+13 ohms·cm	ASTM D257 IEC 60093
Arc Resistance	PLC 5	ASTM D495
Thermal	**Value**	**Test Method**
RTI Elec		UL 746
0.40 mm	130 °C	
0.71 mm	130 °C	
1.0 mm	130 °C	
1.5 mm	130 °C	
3.0 mm	130 °C	
RTI Imp		UL 746
0.40 mm	75.0 °C	
0.71 mm	75.0 °C	
1.0 mm	75.0 °C	
1.5 mm	75.0 °C	
3.0 mm	75.0 °C	
RTI Str		UL 746
0.40 mm	75.0 °C	
0.71 mm	85.0 °C	
1.0 mm	85.0 °C	
1.5 mm	85.0 °C	
3.0 mm	85.0 °C	
Ball Pressure Test (240°C, 3.00 mm)	Pass	IEC 60695-10-2
Physical	**Value**	**Test Method**
Dimensional Stability	1.6 %	ASTM D1042 ISO 2796
Outdoor Suitability	f2	UL 746C
RoHS Compliance	**Value**	**Test Method**
RoHS 2011/65/EU Material (NC, BK)	Compliant	UL 746R/IEC 62321
Halogen Content	**Value**	**Test Method**
Non-Halogenated Material (NC, BK)	Compliant	UL 746H/C-IC

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