



ECO Series

Halogen-free PA66 resin



inspiring everyday

ECO315J PA66/6 resin

PRODUCT FEATURES:

- Available in natural and black color
- Electrically neutral
- Non-halogenated, flame retardant
- Heat stabilized
- V0 down to 0.4 mm
- Excellent ductility (>20% elongation)
- CTI > 600 V
- Excellent insulation properties
- Satisfies UL 486

BENEFITS:

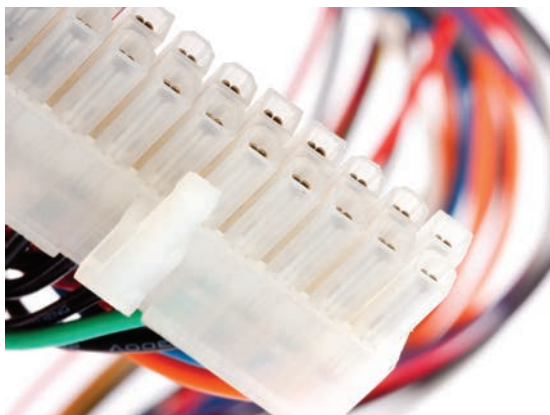
- Superior ductility for enhanced living hinge, latch and snap-fit performance and design
- Enhanced heat aging of 1000 hours at 135°C
- Low corrosion for improved electrical contact performance
- Reduced mold deposit / outgassing for optimized production cost
- Ideal for natural and colorable applications

Category

Product

Characteristics

Property	Test Method	Units
Melting Point	ISO 11357-3	°C
Heat Deflection Temperature (HDT)	0.45 MPa	°C
	1.8 MPa	°C
Tensile Strain at Break	ISO 527-2	%
Tensile Stress at Yield	ISO 527-2	MPa
Flame Class	UL 94	—
Hot Wire Ignition (HWI)	UL 746A	PLC
High Amp Arc Ignition (HAI)	UL 746A	PLC
Comparative Tracking Index (CTI)	IEC 60112	PLC
Dielectric Strength	IEC 60243	kV/mm
High-Voltage Arc Tracking Rate (HVTR)	UL 746A	PLC
Inclined-Plane Tracking (IPT)	IEC 60587	minutes
High-Voltage, Low-Current Arc Resistance	ASTM D495	PLC
Relative Thermal Index Electrical	UL 746B	°C
Relative Thermal Index Strength	UL 746B	°C



Non-halogenated, flame-retardant grades

ECO315J	ECO366	ECO366H
<ul style="list-style-type: none"> • Unfilled PA66/6 • Halogen-free • High elongation 	<ul style="list-style-type: none"> • Unfilled PA66 • Halogen-free • f1-rated in black 	<ul style="list-style-type: none"> • Unfilled PA66 • Halogen-free
244	265	265
225	240	240
65	75	75
25.0	4.0	4.0
75.0	83.0	83.0
V-0, 0.4 mm	V-0, 0.4 mm	V-0, 0.4 mm
PLC 4, 0.4 mm PLC 3, 3.0 mm	PLC 4, 0.4 mm PLC 3, 1.5 mm PLC 2, 3.0 mm	PLC 4, 0.4 mm PLC 3, 0.75 mm PLC 1, 3.0 mm
PLC 0, 0.4 mm	PLC 2, 0.4 mm PLC 1, 0.75 mm	PLC 0, 0.4 mm
PLC 0	PLC 0	PLC 0
13	17	17
PLC 1	PLC 0	PLC 0
120 at 1 kV	120 at 1 kV	120 at 1 kV
PLC 5	PLC 5	PLC 5
130, 0.40 mm 130, 0.75 mm 130, 1.5 mm 130, 3.0 mm	120, 0.40 mm 120, 0.75 mm 120, 1.5 mm 120, 3.0 mm	150, 0.40 mm 150, 0.75 mm 150, 1.5 mm 150, 3.0 mm
100, 0.40 mm 100, 0.75 mm 100, 1.5 mm 110, 3.0 mm	105, 0.40 mm 110, 0.75 mm 110, 1.5 mm 110, 3.0 mm	130, 0.40 mm 130, 0.75 mm 130, 1.5 mm 130, 3.0 mm

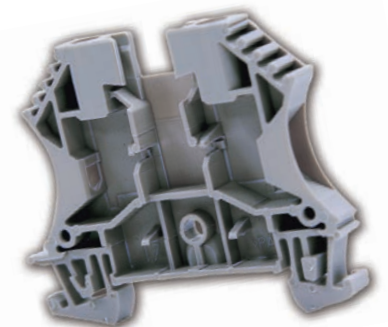
ECO366/366H PA66 resin

PRODUCT FEATURES:

- Available in natural and black color
- Electrically neutral
- Non-halogenated, flame retardant
- Heat stabilized
- V0 down to 0.4 mm
- High melt temperature (>260°C)
- CTI > 600 V
- Excellent insulation properties
- ECO366H satisfies UL 1059 and IEC 60947-7-1 for terminal blocks

BENEFITS:

- High flow for intricate parts, reduced warpage and reduced cycle time
- ECO366H is heat stabilized for extended performance at 170°C
- Low corrosion for improved electrical contact performance
- Reduced mold deposit / outgassing for optimized production cost
- Ideal for natural and colorable applications





About Ascend

Ascend Performance Materials is one of the world's largest fully-integrated producers of nylon 6,6 resin (also known as polyamide 6,6 resin or PA66). The company also manufactures nylon 6,6-based fiber, nylon intermediate chemicals and dozens of specialty chemicals.

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