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**PRODUCT PROFILE**

## **Vydyne<sup>®</sup> J Series**

Electrically neutral, non-corrosive  
PA66 resin

Ascend's Vydyne J Series grades are heat stabilized, electrically neutral nylon 6,6 with superior melt flow properties and low plate-out technology for molding of thin wall parts. Their high dielectric strength and enhanced flow make J Series grades ideal for miniaturized electrical and automotive applications. Utilizing a unique organic heat stabilizer, J Series excels in 48-volt mild hybrid automotive systems that require corrosion resistant engineered plastics.



# Vydyne® J Series

## Product features:

- Heat stabilized and glass-filled PA66 resin
- Electrically neutral
- Prevents electrochemical corrosion
- Copper-free and halogen salt-free
- High flow
- Long-term thermal stability up to 155°C at 1,000 hours

## Benefits:

### *Part performance*

- Low corrosion for improved electrical contact performance
- Improved component safety for sensors and terminals
- High dielectric strength suitable for miniaturized applications
- Good dimensional stability and high strength for intricate components

### *Processing performance*

- Improved flow leading to reduced cooling time
- Reduced cavity pressure and extended tool life
- Consistent color batch to batch allows good color uniformity and masterbatch coloration
- Direct laser markable and laser weldable

## Applications:

- Connectors
- Housings
- Relays and sensors
- Air bag modules
- Lithium-ion battery trays
- Automotive control boxes
- Onboard charger components

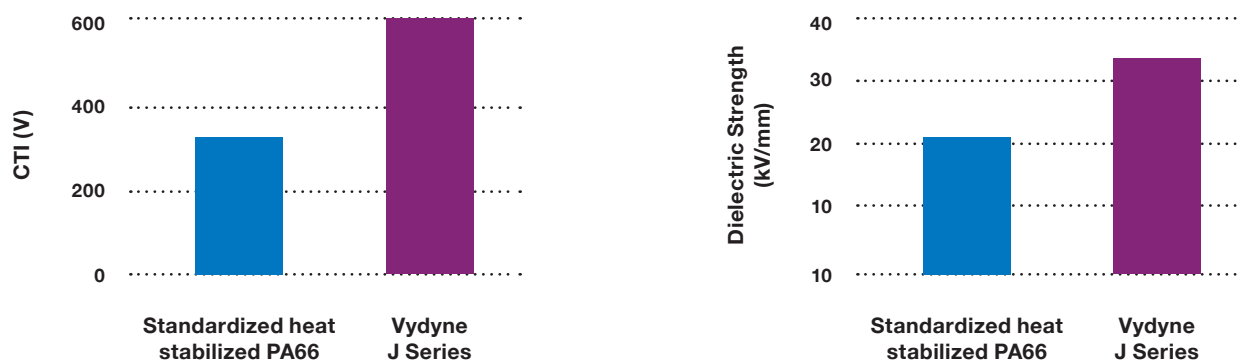


High flow &  
low plate-out.

Category		Electrically neutral and heat stabilized grades				
Product		R515J	R525J	R530J	R535J	
Characteristics		<ul style="list-style-type: none"> <li>Electrically neutral</li> <li>Heat stabilized</li> <li>15% glass-filled</li> </ul>	<ul style="list-style-type: none"> <li>Electrically neutral</li> <li>Heat stabilized</li> <li>25% glass-filled</li> </ul>	<ul style="list-style-type: none"> <li>Electrically neutral</li> <li>Heat stabilized</li> <li>30% glass-filled</li> </ul>	<ul style="list-style-type: none"> <li>Electrically neutral</li> <li>Heat stabilized</li> <li>35% glass-filled</li> </ul>	
Property	Test Method	Units				
Tensile Strain at Break (Dry)	ISO 527-2	%	3	3	3	2.8
Flexural Modulus (Dry)	ISO 178	MPa	5900	7700	9600	10500
Tensile Stress at Break (Dry)	ISO 527-2	MPa	120	174	195	209
Heat Deflection Temperature (HDT)	ISO 75-2/B	°C	258	258	260	261
Dielectric Strength	IEC 60243	kV/mm	24	24	24	20
Comparative Tracking Index (CTI)	IEC 60112	V	600	600	600	600
Volume Resistivity	IEC 60093	ohms-cm	1.0E+13	1.0E+13	1.0E+13	1.0E+14

## Electrical Properties

J Series grades exhibit superior comparative tracking index (CTI) and dielectric strength compared to standard heat stabilized PA66.



# About Ascend

Ascend Performance Materials is the world's largest fully integrated producer of nylon 6,6 resin. We manufacture and reliably supply world-class plastics, fibers and chemicals that are used in thousands of everyday applications such as car parts, electronics and cable ties.

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