

## Vydyne® 64C-R

Ascend Performance Materials Operations LLC - *Polyamide 66*

### General Information

#### Product Description

Vydyne 64C-R is a medium-viscosity PA66 resin suitable for injection-molding, extrusion and compounding applications. It is available in natural color only. 64C-R resin offers high strength, rigidity and toughness over a broad range of demanding applications and good fluid resistance to a wide variety of chemicals, solvents and oils.

#### General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Features	• Chemical Resistant • High Melt Strength • Medium Viscosity • General Purpose • High Rigidity • Oil Resistant • Good Toughness • High Strength • Solvent Resistant
Agency Ratings	• ASTM D4066 PA0112 • EC 1935/2004 • EU 2023/2006 • ASTM D6779 PA0112 • EU 10/2011
UL File Number	• E70062
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Extrusion
Resin ID	• PA66

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm <sup>3</sup>	ISO 1183
Water Absorption (Saturation, 73°F)	8.5	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	2.5	%	ISO 62
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	500	°F	ISO 11357-3
CLTE - Flow (73 to 131°F, 0.0787 in)	5.6E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (73 to 131°F, 0.0787 in)	5.6E-5	in/in/°F	ISO 11359-2
RTI Elec			UL 746B
0.06 in	266	°F	
0.12 in	266	°F	
RTI Imp			UL 746B
0.06 in	167	°F	
0.12 in	167	°F	
RTI Str			UL 746B
0.06 in	185	°F	
0.12 in	185	°F	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (0.0394 in)	1.0E+14	ohms·cm	IEC 60093
Electric Strength (0.0394 in)	580	V/mil	IEC 60243-1
Arc Resistance (0.118 in)	PLC 6		ASTM D495
Comparative Tracking Index (0.118 in)	600	V	IEC 60112
High Amp Arc Ignition (HAI)			UL 746A
0.06 in	PLC 0		
0.12 in	PLC 0		
High Voltage Arc Tracking Rate (HVTR) (0.118 in)	PLC 0		UL 746A
Hot-wire Ignition (HWI)			UL 746A
0.06 in	PLC 4		
0.12 in	PLC 3		



<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating			UL 94
0.06 in		V-2	
0.12 in		V-2	
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in	1470	°F	
0.12 in	1560	°F	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in	1290	°F	
0.12 in	1290	°F	

### Processing Information

<b>Extrusion</b>	<b>Nominal Value</b>	<b>Unit</b>
Cylinder Zone 1 Temp.	482 to 563	°F
Cylinder Zone 2 Temp.	482 to 563	°F
Cylinder Zone 3 Temp.	482 to 563	°F
Cylinder Zone 4 Temp.	482 to 563	°F
Cylinder Zone 5 Temp.	482 to 563	°F
Melt Temperature	518 to 563	°F
Die Temperature	518 to 563	°F

### Notes

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

