

Vydyne® 64C-R

polyamide 66



Vydyne 64C-R is a medium-viscosity PA66 resin suitable for injection-molding, extrusion and compounding applications. It is available in natural color only. Vydyne 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.

Typical Applications/End Uses:
Typical uses include packaging films, monofilaments, bristles, rods, tubing and sheet.

General					
Material Status	• Commercial: Active				
Availability	• Asia Pacific		• Europe	• North America	
Features	• General Purpose • Good Chemical Resistance • Good Melt Strength		• Good Toughness • High Rigidity • High Strength	• Medium Viscosity • Oil Resistant • Solvent Resistant	
Uses	• Cast Film • Film • Food Packaging		• Industrial Applications • Monofilaments • Rods	• Sheet • Tubing	
Agency Ratings	• ASTM D 4066 PA0112		• ASTM D 6779 PA0112		
RoHS Compliance	• RoHS Compliant				
Appearance	• Natural Color				
Forms	• Pellets				
Processing Method	• Extrusion		• Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method	
Density	1.14	--	g/cm ³	ISO 1183	
Water Absorption (Saturation, 73°F)	8.5	--	%	ISO 62	
Water Absorption (Equilibrium, 73°F, 50% RH)	2.5	--	%	ISO 62	
Thermal	Dry	Conditioned	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 746	
0.0591 in	266	--	°F		
0.118 in	266	--	°F		
RTI Imp				UL 746	
0.0591 in	167	--	°F		
0.118 in	167	--	°F		
RTI Str				UL 746	
0.0591 in	185	--	°F		
0.118 in	185	--	°F		

Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity (0.0295 in)	1.0E+14	--	ohm-cm	IEC 60093
Dielectric Strength (0.0394 in)	580	--	V/mil	IEC 60243
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 746
0.0591 in	PLC 0	--		
0.118 in	PLC 0	--		
High Voltage Arc Tracking Rate (HVTR)	PLC 0	--		UL 746
Hot-wire Ignition (HWI)				UL 746
0.0591 in	PLC 4	--		
0.118 in	PLC 3	--		
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.0591 in	V-2	--		
0.118 in	V-2	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.0591 in	1470	--	°F	
0.118 in	1560	--	°F	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.0591 in	1290	--	°F	
0.118 in	1290	--	°F	
Extrusion	Dry Unit			
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			

Extrusion Notes

Recommended Extrusion Conditions:

- Melt Point: 260°C
- Melt Pressure: 3 to 17 MPa
- Blow Film Bath Temperature: 20°C to 80°C
- Chill Roll Temperature (Cast Film): 20°C to 80°C
- Screw Design: General Purpose or Barrier

Notes

Typical properties: these are not to be construed as specifications.

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