

Vydyne® 64C-R

Polyamide 66

Ascend Performance Materials Operations LLC

Message:

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 Information	
Features	Rigidity, high High strength Solvent resistance Good melt strength Good chemical resistance Oil resistance Good toughness General Medium viscosity
Uses	Bar Films monofilament Industrial application Pipe fittings cast film Sheet Food packaging
Agency Ratings	ASTM D 4066 PA0112 ASTM D 6779 PA0112
RoHS Compliance	RoHS compliance
Appearance	Natural color
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183

Water Absorption				ISO 62
Saturated, 23°C	8.5	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.5	--	%	ISO 62
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature	260	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow: 23 to 55°C, 2.00mm	1.0E-4	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C, 2.00mm	1.0E-4	--	cm/cm/°C	ISO 11359-2
RTI Elec				UL 746
1.50 mm	130	--	°C	UL 746
3.00 mm	130	--	°C	UL 746
RTI Imp				UL 746
1.50 mm	75.0	--	°C	UL 746
3.00 mm	75.0	--	°C	UL 746
RTI				UL 746
1.50 mm	85.0	--	°C	UL 746
3.00 mm	85.0	--	°C	UL 746
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity (0.750 mm)	1.0E+14	--	ohms·cm	IEC 60093
Dielectric Strength (1.00 mm)	23	--	kV/mm	IEC 60243
Arc Resistance (3.00 mm)	PLC 6	--		ASTM D495
Comparative Tracking Index (3.00 mm)	600	--	V	IEC 60112
High Amp Arc Ignition (HAI)				UL 746
1.50 mm	PLC 0	--		UL 746
3.00 mm	PLC 0	--		UL 746
High Voltage Arc Tracking Rate (HVTR)				UL 746
Hot-wire Ignition (HWI)				UL 746
1.50 mm	PLC 4	--		UL 746
3.00 mm	PLC 3	--		UL 746
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.50 mm	V-2	--		UL 94
3.00 mm	V-2	--		UL 94
Glow Wire Flammability Index				IEC 60695-2-12
1.50 mm	800	--	°C	IEC 60695-2-12

3.00 mm	850	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature				IEC 60695-2-13
1.50 mm	700	--	°C	IEC 60695-2-13
3.00 mm	700	--	°C	IEC 60695-2-13
Extrusion	Dry	Unit		
Cylinder Zone 1 Temp.	250 - 295		°C	
Cylinder Zone 2 Temp.	250 - 295		°C	
Cylinder Zone 3 Temp.	250 - 295		°C	
Cylinder Zone 4 Temp.	250 - 295		°C	
Cylinder Zone 5 Temp.	250 - 295		°C	
Melt Temperature	270 - 295		°C	
Die Temperature	270 - 295		°C	
Extrusion instructions				

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

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