

## Diamond Polymers ABS/PC FC-30

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

### Material Notes:

Description: Injection Molding Grade, High Impact, Flame Retardant Information provided by Diamond Polymers, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Diamond-Polymers-ABSPC-FC-30.php](http://www.lookpolymers.com/polymer_Diamond-Polymers-ABSPC-FC-30.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
Melt Flow	1.5 g/10 min	1.5 g/10 min	Procedure A Condition G; ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	7.5 g/10 min	7.5 g/10 min	Procedure A Condition I; ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	117	117	ASTM D785
Tensile Strength, Yield	55.2 MPa	8000 psi	chs 2 in/min; ASTM D638
Flexural Modulus	2.66 GPa	386 ksi	Tangent, chs 0.05 in/min; ASTM D790
Izod Impact, Notched	5.87 J/cm	11.0 ft-lb/in	bar; ASTM D256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	98.9 °C	210 °F	0.125 in bar Unannealed/Conditioned 40 hours at 23°C; ASTM D648
	116 °C	240 °F	0.125 in bar Annealed 4 hours at 80°C; ASTM D648
Vicat Softening Point	125 °C	257 °F	0.125 inch, 1 Kg; ASTM D1525
Flammability, UL94	V-0	V-0	0.100 in
	V-2	V-2	
	@Thickness 0.930 mm	@Thickness 0.0366 in	
	V-0	V-0	

Thermal Properties	Metric @Thickness 1.50 mm	English @Thickness 0.0591 in	Comments
	5VA	5VA	
	@Thickness 2.50 mm	@Thickness 0.0984 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	238 - 257 °C	460 - 495 °F	
Middle Barrel Temperature	238 - 257 °C	460 - 495 °F	
Front Barrel Temperature	238 - 254 °C	460 - 490 °F	
Nozzle Temperature	238 - 254 °C	460 - 490 °F	
Melt Temperature	227 - 249 °C	440 - 480 °F	Melt temperatures above 490°F are not recommended for long periods of time which may result in color shifts and or thermal instability.
Mold Temperature	60.0 - 82.2 °C	140 - 180 °F	Higher mold temperature can aid flow in processing, provides a better surface finish, and creates less residual stress in the finished products.
Drying Temperature	90.6 - 98.9 °C	195 - 210 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	<= 0.10 %	<= 0.10 %	
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	

## Contact Songhan Plastic Technology Co.,Ltd.

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