

Technical Data Sheet

Diamond PC 1008NCD 1002 UVNAT



Polycarbonate

Product Description

Diamond PC 1008NCD 1002 UVNAT is a Polycarbonate material. Features include: Impact Modified.

Attribute	Impact Modified
Forms	Pellets
Additive	Impact Modifier

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (300 °C/1.2 kg, Procedure A)	8.0	g/10 min	ASTM D1238
Density - Specific Gravity	1.18	g/cm³	ASTM D792
Mechanical			
Tensile Strength at Yield, (51 mm/min, Type I)	66.2	MPa	ASTM D638
Flexural Modulus, (1.3 mm/min, 3.18 mm)	2210	MPa	ASTM D790
Flexural Strength, (1.3 mm/min, 3.18 mm)	84.8	MPa	ASTM D790
Impact			
Notched Izod Impact, (23 °C, 3.18 mm, Method A)	770	J/m	ASTM D256
Thermal			
Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm)	126	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi), (3.18 mm)	138	°C	ASTM D648

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	121	°C
Nozzle Temperature	285 to 321	°C
Processing (Melt) Temp	285 to 327	°C
Front Temperature	285 to 327	°C
Middle Temperature	285 to 316	°C
Rear Temperature	274 to 304	°C
Mold Temperature	82 to 116	°C
Drying Time, Maximum	4	hr