

DIAMALLOY ENGINEERED ALLOYS 808 C2 WW

Polycarbonate Alloy
Network Polymers, Inc.

Message:

DIAMALLOY ENGINEERED ALLOYS 808 C2 WW is a Polycarbonate Alloy (PC Alloy) product. It is available in North America. Typical application: Food Contact Applications.

Characteristics include:

REACH Compliant
RoHS Compliant
WEEE Compliant

General Information			
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2002/96/EC (WEEE)		
	FDA 21 CFR 174.105		
	FDA 21 CFR 175.105(b)(3)(viii)		
	FDA 21 CFR 176.170(c), Table 2, Cond. C		
	FDA 21 CFR 176.170(c), Table 2, Cond. D		
	FDA 21 CFR 176.170(c), Table 2, Cond. E		
	FDA 21 CFR 176.170(c), Table 2, Cond. F		
	FDA 21 CFR 176.170(c), Table 2, Cond. G		
	FDA 21 CFR 177.1580		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹			ASTM D1238
200°C/5.0 kg	3.0	g/10 min	
230°C/3.8 kg	12	g/10 min	
300°C/1.2 kg	78	g/10 min	
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Water Absorption			ASTM D570
23°C, 24 hr	0.15	%	
Equilibrium, 23°C	0.35	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	55.2	MPa	ASTM D638
Flexural Modulus - Tangent ³	2070	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	110	J/m	ASTM D256
Reverse Notch Izod Impact (23°C, 3.18 mm)	No Break		ASTM D256

Gardner Impact (23°C)	> 36.2	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	77.8	°C	ASTM D648
Optical	Nominal Value	Unit	Test Method
Transmittance	90.0	%	ASTM D1003
Haze	1.0	%	ASTM D1003
NOTE			
1.	Procedure A		
2.	51 mm/min		
3.	1.3 mm/min		

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