

DIAMALLOY ENGINEERED ALLOYS 808 C8 WW

Polycarbonate Alloy

Network Polymers, Inc.

Message:

DIAMALLOY ENGINEERED ALLOYS 808 C8 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	1.22	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (200°C/5.0 kg)	2.0	g/10 min	ASTM D1238
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)	61.7	MPa	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus - Tangent ³	2340	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	96	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.18 mm)	No Break		ASTM D256
Gardner Impact			ASTM D5420
-29°C	> 36.2	J	

-18°C	> 36.2	J	
23°C	> 36.2	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	103	°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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