

Diamond ABS TR-5000

Acrylonitrile Butadiene Styrene

Network Polymers, Inc.

Message:

Diamond ABS TR-5000 is an Acrylonitrile Butadiene Styrene (ABS) product. It can be processed by injection molding and is available in North America.
Typical application: Food Contact Applications.
Characteristics include:
Flame Rated
REACH Compliant
RoHS Compliant
WEEE Compliant

General Information			
UL YellowCard	E51193-101898836		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2002/96/EC (WEEE)		
	FDA 21 CFR 181.32		
RoHS Compliance	RoHS Compliant		
UL File Number	E150937		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (200°C/5.0 kg)	2.1	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	48.8	MPa	ASTM D638
Flexural Modulus ³	2300	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	110	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	72.8	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (3000 µm)	90.0	%	ASTM D1003
Haze (3000 µm)	3.5	%	ASTM D1003

Injection	Nominal Value	Unit
Drying Temperature	80.0 to 85.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	190 to 250	°C
Middle Temperature	190 to 250	°C
Front Temperature	190 to 250	°C
Mold Temperature	40.0 to 80.0	°C
Injection Rate	Moderate-Fast	

NOTE

1. Procedure A
2. 51 mm/min
3. Method I (3 point load), 1.3 mm/min

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