

Diamond ABS TR-7

Acrylonitrile Butadiene Styrene

Network Polymers, Inc.

Message:

Diamond ABS TR-7 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in North America.

Characteristics include:

- REACH Compliant
- RoHS Compliant
- WEEE Compliant
- Heat Resistant

General Information			
Features	High Heat Resistance		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2002/96/EC (WEEE)		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹			ASTM D1238
200°C/5.0 kg	0.90	g/10 min	
230°C/3.8 kg	2.7	g/10 min	
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	49.0	MPa	ASTM D638
Flexural Modulus ³	2340	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	120	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.35 mm)	100	°C	ASTM D648
Vicat Softening Temperature	124	°C	ASTM D1525 ⁴
Injection	Nominal Value	Unit	
Drying Temperature	82.0 to 90.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	200 to 250	°C	
Middle Temperature	200 to 250	°C	

Front Temperature	200 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	
4.	Loading 1 (10 N)	

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WECHAT