

# Diamond ASA S-555T

Acrylonitrile Styrene Acrylate  
Network Polymers, Inc.

Message:

Diamond ASA S-555T is an Acrylonitrile Styrene Acrylate (ASA) product. It can be processed by injection molding and is available in North America. Characteristics include:  
REACH Compliant  
RoHS Compliant  
WEEE Compliant  
Good Weather Resistance  
Heat Resistant

General Information			
Features	Good Weather Resistance		
	High Heat Resistance		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2002/96/EC (WEEE)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) <sup>1</sup> (230°C/3.8 kg)	2.4	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield, 23°C, 3.18 mm, Injection Molded)	36.2	MPa	ASTM D638
Flexural Modulus - Tangent <sup>3</sup> (23°C, 3.18 mm, Injection Molded)	1230	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	240	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm, Injection Molded)	82.2	°C	ASTM D648
Vicat Softening Temperature	121	°C	ASTM D1525 <sup>4</sup>
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	%	
Suggested Shot Size	40 to 70	%	

Suggested Max Regrind	25	%
Rear Temperature	230 to 260	°C
Middle Temperature	232 to 265	°C
Front Temperature	235 to 272	°C
Nozzle Temperature	220 to 272	°C
Processing (Melt) Temp	220 to 272	°C
Mold Temperature	37.8 to 82.2	°C
Injection Rate	Fast	
Back Pressure	0.517 to 1.03	MPa


NOTE		
1.	Procedure A	
2.	51 mm/min	
3.	1.3 mm/min	
4.	Loading 1 (10 N)	

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