Diamond AES 052

Acrylonitrile Ethylene Styrene

Network Polymers, Inc.

Message:

Diamond AES 052 is an Acrylonitrile Ethylene Styrene (AES) product. It can be processed by injection molding and is available in North America. Characteristics include: REACH Compliant ROHS Compliant WEEE Compliant Good Stiffness Good Weather Resistance

General Information					
Features	Good Stiffness				
	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	1.04	g/cm³	ASTM D792		
Melt Mass-Flow Rate (MFR) ¹ (220°C/10.0					
kg)	5.0	g/10 min	ASTM D1238		
Molding Shrinkage - Flow (23°C, 3.18 mm, Injection Molded)	0.60 to 0.80	%	ASTM D955		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Strength ² (Yield, 23°C, 3.18 mm,					
Injection Molded)	35.3	MPa	ASTM D638		
Flexural Modulus - Tangent ³ (23°C, 3.18 mm, Injection Molded)	2140	MPa	ASTM D790		
Flexural Strength ⁴ (23°C, 3.18 mm,					
Injection Molded)	58.0	MPa	ASTM D790		
Impact	Nominal Value	Unit	Test Method		
Notched Izod Impact (23°C, 3.18 mm,					
Injection Molded)	120	J/m	ASTM D256		
Thermal	Nominal Value	Unit	Test Method		
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.35 mm, Injection					
Molded)	104	°C	ASTM D648		
Vicat Softening Temperature	126	°C	ASTM D1525 ⁵		
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	40.0 to 80.0	°C	
Injection Rate	Fast		
Back Pressure	0.517 to 1.03	МРа	
NOTE			
1.	Procedure A		
2.	Type I, 51 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		
5.	Rate B (120°C/h)		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

