

Diamond ABS 3500

Acrylonitrile Butadiene Styrene

Network Polymers, Inc.

Message:

Diamond ABS 3500 is an Acrylonitrile Butadiene Styrene (ABS) product. It can be processed by injection molding and is available in North America. Characteristics include:

- Flame Rated
- REACH Compliant
- RoHS Compliant
- WEEE Compliant
- Impact Resistant

General Information			
UL YellowCard	E51193-101898781		
Features	Medium Impact Resistance		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2002/96/EC (WEEE)		
RoHS Compliance	RoHS Compliant		
UL File Number	E150937		
Appearance	Natural Color		
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			ASTM D1238
200°C/5.0 kg	2.9	g/10 min	
230°C/3.8 kg	8.5	g/10 min	
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield	43.2	MPa	
Break	34.9	MPa	
Tensile Elongation ³			ASTM D638
Yield	2.4	%	
Break	43	%	
Flexural Modulus - Tangent ⁴	2350	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	190	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	77.2	°C	ASTM D648
Vicat Softening Temperature	107	°C	ASTM D1525 ⁵
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
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.	51 mm/min		
4.	1.3 mm/min		
5.	Loading 1 (10 N)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

