

Diamond ASA TWP502

Acrylonitrile Styrene Acrylate
Network Polymers, Inc.

Message:

Diamond ASA TWP502 is an Acrylonitrile Styrene Acrylate (ASA) product. It is available in North America.
Characteristics include:
REACH Compliant
RoHS Compliant
WEEE Compliant
Good Weather Resistance

General Information			
Features	Good Weather Resistance		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2002/96/EC (WEEE)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹			ASTM D1238
200°C/5.0 kg	1.3	g/10 min	
230°C/3.8 kg	3.9	g/10 min	
Molding Shrinkage - Flow	0.60 to 1.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	98		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	34.8	MPa	ASTM D638
Flexural Modulus ³	1340	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			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	82.8	°C	
0.45 MPa, Annealed, 3.18 mm	93.9	°C	
1.8 MPa, Unannealed, 3.18 mm	68.9	°C	
1.8 MPa, Annealed, 3.18 mm	86.1	°C	
Vicat Softening Temperature	93.9	°C	ASTM D1525 ⁴
Optical	Nominal Value	Unit	Test Method
Transmittance (3000 µm)	88.0	%	ASTM D1003
Haze (3000 µm)	8.0	%	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	%
Suggested Shot Size	40 to 70	%
Suggested Max Regrind	30	%
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	MPa

NOTE

1. Procedure A
2. 51 mm/min
3. Method I (3 point load), 1.3 mm/min
4. 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

