Diamond ASA S510

Acrylonitrile Styrene Acrylate

Network Polymers, Inc.

Message:

Diamond ASA S510 is an Acrylonitrile Styrene Acrylate (ASA) product. It can be processed by injection molding and is available in North America.
Characteristics include:
Flame Rated
REACH Compliant
RoHS Compliant
WEEE Compliant
Good Weather Resistance

General Information			
Features	Good Weather Resistance Medium Impact Resistance		
Agency Ratings	EC 1907/2006 (REACH) EU 2002/96/EC (WEEE)		
RoHS Compliance	RoHS Compliant		
UL File Number	E150937		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.06	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) [1] (230°C/3.8 kg)	6.5	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield)	44.1	MPa	ASTM D638
Flexural Modulus - Tangent [3]	2280	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	130	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	82.8	°C	ASTM D648
Vicat Softening Temperature	92.2	°C	ASTM D1525 [4]
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	%	
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.	1.3 mm/min
4.	Loading 1 (10 N)

Recommended distributors for this material

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