Diamond ASA TWP502 7378WHI

LyondellBasell Industries - Acrylonitrile Styrene Acrylate

General Information

Product Description

Diamond ASA TWP502 7378WHI is a Acrylonitrile Styrene Acrylate material. Features include: Good Weather Resistance.

General

Features	• Good Weather Resistance
Forms	• Pellets

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.12		ASTM D792
Melt Mass-Flow Rate (MFR) [2]			ASTM D1238
200°C/5.0 kg	1.3	g/10 min	
230°C/3.8 kg	3.9	g/10 min	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [3] (Yield)	5050	psi	ASTM D638
Flexural Modulus [4]	194000	psi	ASTM D790B
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (0.125 in)	2.1	ft·lb/in	ASTM D256A
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	98		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, 0.125 in	181	°F	
Deflection Temperature Under Load			ASTM D648
66 psi, Annealed, 0.125 in	201	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, 0.125 in	156	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Annealed, 0.125 in	187	°F	
Vicat Softening Temperature	201	°F	ASTM D1525 [5]
Optical	**Nominal Value**	**Unit**	**Test Method**
Light Transmittance (118.1 mil)	88.0	%	ASTM D1003
Haze (118.1 mil)	8.00	%	ASTM D1003

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176 to 185	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.10	%
Suggested Shot Size	40 to 70	%
Rear Temperature	446 to 500	°F
Middle Temperature	450 to 509	°F
Front Temperature	455 to 522	°F
Nozzle Temperature	428 to 522	°F

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Injection	Nominal Value	Unit
Processing (Melt) Temp	428 to 522	°F
Mold Temperature	104 to 176	°F
Injection Rate	Fast	
Back Pressure	75.0 to 149	psi

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Procedure A

[3] 2.0 in/min

[4] Method I (3 point load), 0.051 in/min

[5] Loading 1 (10 N)