Technical Data Sheet

Diamond ASA TWP502 7378WHI

Acrylonitrile Styrene Acrylate

Product Description

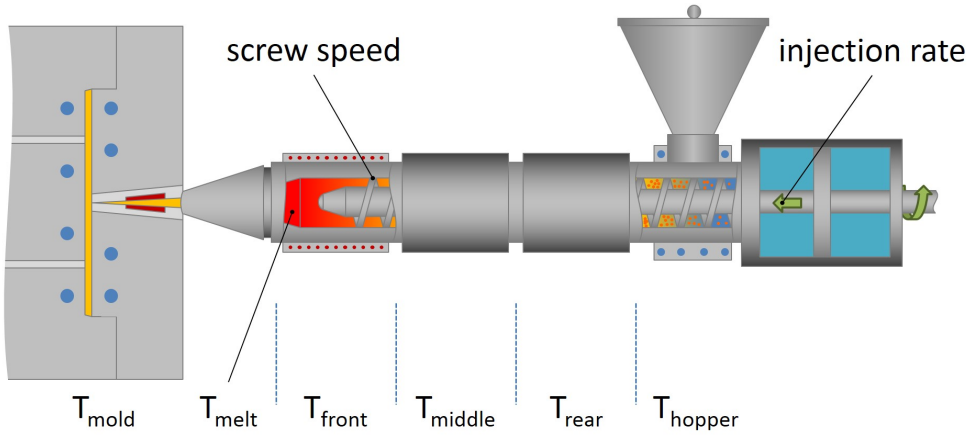
Diamond ASA TWP502 7378WHI is a Acrylonitrile Styrene Acrylate material. Features include: Good Weather Resistance.

Regulatory Status

For regulatory compliance information, see ASA TWP502 7378WHI Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	North America
Attribute	Good Weather Resistance
Forms	Pellets

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(200 °C/5.0 kg, Procedure A)	1.3	g/10 min	ASTM D1238
(230 °C/3.8 kg, Procedure A)	3.9	g/10 min	ASTM D1238
Density - Specific Gravity	1.12	g/cm³	ASTM D792
Mechanical			
Tensile Strength at Yield, (51 mm/min)	34.8	MPa	ASTM D638
Flexural Modulus, (1.3 mm/min, Procedure B, Method I (3 point load))	1340	MPa	ASTM D790
Impact			
Notched Izod Impact, (3.18 mm, Method A)	110	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	98		ASTM D785
Thermal			
Vicat Softening Temperature, (Loading 1 (10 N))	93.9	°C	ASTM D1525
Deflection Temperature Under Load Annealed (264 psi), (3.18 mm)	86.1	°C	ASTM D648
Deflection Temperature Under Load Annealed (66 psi), (3.18 mm)	93.9	°C	ASTM D648
Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm)	68.9	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi), (3.18 mm)	82.8	°C	ASTM D648
Optical			
Haze, (3000 µm)	8.00	%	ASTM D1003
Light Transmittance, (3000 µm)	88.0	%	ASTM D1003



Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	80 to 85	°C
Suggested Max Moisture	0.1	%
Nozzle Temperature	220 to 272	°C
Processing (Melt) Temp	220 to 272	°C
Front Temperature	235 to 272	°C
Suggested Shot Size	40 to 70	%
Middle Temperature	232 to 265	°C
Rear Temperature	230 to 260	°C
Injection Rate	Fast	
Back Pressure	0.517 to 1.03	MPa
Mold Temperature	40 to 80	°C

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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