

ColorFast® ASA500

Americhem - Acrylonitrile Styrene Acrylate

General Information

Product Description

Acrylonitrile Styrene Acrylate, excellent weatherability, good flow/aesthetics

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Excellent Colorability		
Uses	• Consumer Applications • Household Goods	• Industrial Applications • Industrial Parts	• Window & Door Components
UL File Number	• E178307		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.07		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	4.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	6800	psi	ASTM D638
Tensile Strength ² (Break)	6500	psi	ASTM D638
Tensile Elongation ² (Yield)	6.0	%	ASTM D638
Tensile Elongation ² (Break)	25	%	ASTM D638
Flexural Modulus ²	321000	psi	ASTM D790
Flexural Strength ²	10900	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	3.5	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.250 in)	188	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	175 to 195	°F
Drying Time	4.0	hr
Rear Temperature	355 to 395	°F
Middle Temperature	375 to 410	°F
Front Temperature	410 to 430	°F
Nozzle Temperature	410 to 430	°F
Processing (Melt) Temp	390 to 445	°F
Mold Temperature	105 to 175	°F
Back Pressure	70.0 to 140	psi
Screw Speed	50 to 100	rpm

Notes

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

² 2.0 in/min

