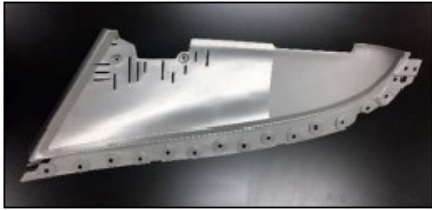









# AGS Technology Inc.

## RELATIVE PERFORMANCE COMPARISONS: ABS, ABS+PC, PC THERMOPLASTIC RESINS

Material ID	Material Type	Specific Gravity	Impact Strength	Tensile Strength	Flexural Modulus	HDT @ 264 psi	Other Info
ABS	Acrylonitrile-Butadiene-Styrene	1.04	3.5 ft-lb/in	5,400 psi	290,000 psi	167°F	Good impact, rigidity and dimensional stability Platable Higher butadiene content increases impact strength Higher acrylonitrile content increases heat resistance (HDT)
ABS+PC	Acrylonitrile-Butadiene-Styrene + Polycarbonate Blend	1.13	12.0 ft-lb/in	7,800 psi	330,000 psi	220°F	Excellent impact over wide temperature range (73°F to -20°F) Good rigidity, dimensional stability, heat resistance, and processability
PC	Polycarbonate	1.20	15.0 ft-lb/in	9,000 psi	340,000 psi	265°F	Excellent impact and heat resistance Good dimensional stability Available in clear Not recommended in environments with organic solvents (eg. gasoline).

Material ID	Typical Automotive Applications				
ABS	Door Panel Substrates Armrest Substrates Door Module Brackets Shifter Retainers				
ABS+PC	Armrest Substrates Instrument Panel Cluster Substrates Overhead DVD/HVAC Retainer Brackets Center Console Lid Substrates				
PC	Overhead Console Brackets Sunroof/Moonroof Bracket Tail Lamp Housings Pull Handle Retainers	