



Royalite™ R12 Rigid ABS Sheet

Product Bulletin

Custom Engineered Structures

Product Description

Royalite™ R12 is a rigid, thermoplastic ABS sheet solution with exceptionally good high heat performance. Its thermoformability partnered with its ability to maintain its strength at elevated temperatures make R12 a popular solution for applications which require resistance to vibration and movement as well as sterilization from boiling water.

Value Solution

Royalite R12's heat deflection temperature is rated at 220 °F; standard ABS sheet is rated at 185 °F to 210 °F. This allows R12 to maintain its shape and perform under demanding environments. Its engineered composition makes it an ideal choice for large part thermoforming. Its stiffness and high impact strength create tough, long-lasting parts for a variety of automobile, aerospace and other vehicular applications. Its high heat performance also make it the perfect choice for applications which require sterilization by boiling water.

Key Characteristics

The primary features and benefits of Royalite R12 sheet are:

High impact strength - Creates tough, durable parts

High heat deflection temperature - Maintains strength, shape and performance in temperatures up to 220 °F

Capped sheet - Allows for exceptional color and gloss control, and provides outstanding grain retention after forming

Thermoformability - Formulated specifically with thermoforming in mind



Markets and End-Use Applications

Automotive and Trucking

Heater/air conditioner housings, instrument panels, under-the-hood applications, and embossed passenger car insignias

Aerospace

Aircraft and helicopter interior parts

Food Services

Food trays and tote boxes

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