

# DG-HR110 | ABS Resin

Heat Resistance Grade

## Product Description

DG-HR110 is a heat resistance grade. The technical values below are based on manufacturer-provided product documentation.

## Typical Properties

| Property                     | Nominal Value | Unit     | Test Method | Test Conditions            |
|------------------------------|---------------|----------|-------------|----------------------------|
| Melt Flow Index              | 9             | g/10 min | ASTM D1238  | 220°C / 10 kg              |
| Flexural Strength            | 60            | MPa      | ASTM D790   | 2 mm/min                   |
| Flexural Modulus             | 2150          | MPa      | ASTM D790   | 2 mm/min                   |
| Tensile Strength             | 45            | MPa      | ASTM D638   | 50 mm/min                  |
| Izod Notched Impact Strength | 230           | J/m      | ASTM D256   | 23°C, 3.2 mm               |
| Vicat Softening Temperature  | 104           | °C       | ASTM D1525  | 50 N, 50°C/hr              |
| Heat Deflection Temperature  | 85            | °C       | ASTM D648   | 1.80 MPa, 120°C/hr, 6.4 mm |

## Features & Applications

|              |                                                                |
|--------------|----------------------------------------------------------------|
| Features     | Heat resistance grade                                          |
| Applications | Shells of home appliances, hair dryers, automobile parts, etc. |

## Processing Guide

| Processing Parameter | Recommended Value | Unit |
|----------------------|-------------------|------|
| Drying Temperature   | 80 - 90           | °C   |
| Drying Time          | 2 - 4             | hr   |
| Moisture Content     | 0.01              | %    |
| Melt Temperature     | 230 - 250         | °C   |
| Mold Temperature     | 230 - 250         | °C   |

Note: Technical property data is based on manufacturer-provided documentation and is provided for reference only. Typical values are not guaranteed specifications. Customers should confirm final specifications and suitability for their intended application.