

PrimaFlex® ABS 1045

Acrylonitrile Butadiene Styrene

Plastic Solutions, Inc.

Message:

Description: ABS 1045 is a very easy flowing grade of ABS for injection molding with high resistance to impact and heat deflection.

| General Information | | | |
|---|------------------------|-------------------|-------------|
| Features | General Purpose | | |
| | Good Flow | | |
| | High Gloss | | |
| | High Heat Resistance | | |
| | High Impact Resistance | | |
| Uses | Appliances | | |
| | Consumer Applications | | |
| | General Purpose | | |
| | Housings | | |
| | Toys | | |
| White Goods & Small Appliances | | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.04 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/3.8 kg) | 11 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 0.55 | % | ASTM D955 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 102 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 2500 | MPa | ASTM D638 |
| Tensile Strength (Yield) | 45.0 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 2.4 | % | ASTM D638 |
| Flexural Modulus | 2350 | MPa | ASTM D790 |
| Flexural Strength | 65.0 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 240 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 75.0 | °C | ASTM D648 |

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