

Polypropylene Technical Data Sheet

EP548R

Heterophasic Copolymer

Description:

EP548R is a nucleated, antistatic formulated, high fluidity heterophasic copolymer used for thin-walled injection molding. Items made with EP548R exhibit high stiffness, relatively good impact resistance and excellent antistatic properties. Due to its excellent moldability and short cycle times, EP548R allows high productivity rates.

The finished items show good mechanical properties, and high dimensional stability. EP548R is very well suited for the production of thin-walled articles or articles with long flow paths such as flower pots, containers, housewares, filters, filters housings and appliance components.

Typical Applications

- Thin-walled articles
- Articles with long flow paths such as flower pots, containers, housewares, filters, filters housings and appliance components Sports, Leisure and toys

EP548R is suitable for food contact.

Features: Good impact strength, High stiffness, Excellent antistatic properties, Excellent moldability and short cycle times, Heterophasic copolymer

Suitable for: Injection molding applications

Product Specification

| PHYSICAL/MECHANICAL PROPERTIES | VALUE* | UNIT | TEST METHOD |
|--|--------|----------|-------------|
| Melt Flow Rate (230 °C, 2.16kg) | 21 | g/10 min | ISO 1133 |
| Density | 0.9 | g/cm³ | ISO 1183 |
| Flexural Modulus | 1500 | MPa | ASTM D790 |
| Tensile Strength at Yield | 27 | MPa | ASTM D638 |
| Tensile Elongation at Yield | 7 | % | ASTM D638 |
| Izod Impact Strength (notched) at 23 °C | 85 | J/m | ASTM D256 |
| Izod Impact Strength (notched) at -20 °C | 50 | J/m | ASTM D256 |
| Rockwell Hardness | 98 | R Scale | ASTM D785 |
| Vicat softening point (10 N) | 149 | °C | ASTM D1525 |
| H.D.T (0.46 Mpa) | 110 | °C | ASTM D648 |
| Accelerated oven ageing in air at 150 °C | 360 | h | ASTM D3012 |

^{*} Typical values; not to be considered as product specification.

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NOTICE: All tests were performed under laboratory conditions and standard testing methods. The data are intended as a general guide only and do not necessarily represent results that might be obtained elsewhere. The use of this product must be guided by the user's own methods for selection of proper formulation. RAYOMAND disclaims any responsibility for misuse or misapplication of this product. RAYOMAND makes no warranty of merchantability and there is no warranty that goods supplied shall be fit for any particular purpose. RAYOMAND liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited. The customer is responsible for determining whether products and information in this document are appropriate for the customer's use.