

Technical Data Sheet

Revision Date: 2020-05-15

NO. WHPP_007

Product Name: EP548R

Version: V 1.2

Product Description

EP548R is a polypropylene impact copolymer with optimized balance of stiffness and impact properties, good flow properties and good impact resistance.

EP548R complies with the following relevant regulations for direct food contact

- GB 4806.6-2016, GB9685-2016
- FDA 21 CFR177.1520(a)(3)(i) and (c)3.1a

Typical Applications

- Home appliances
- White household appliances
- Food-contact packaging
- Household items
- Thin-walled container
- Compounding materials

Typical Properties

| Resin performance | Test Conditions | Typical value | Testing method |
|-------------------------|----------------------------|------------------------|------------------|
| Density | | 0.90 g/cm ³ | GB/T 1033.2-2010 |
| Melt Flow Rate | 230°C /2.16kg | 30 g/10min | GB/T 3682.1-2018 |
| Mechanical | | | |
| Flexural modulus | 2mm/min | 1250 MPa | GB/T 9341-2008 |
| Tensile stress at yield | 50mm/min | 24 MPa | GB/T 1040.2-2006 |
| Tensile strain at yield | 50mm/min | 5 % | GB/T 1040.2-2006 |
| Charpy impact strength | | | |
| 23°C, notched | Type A, Notch depth 2mm | 10 KJ/m ² | GB/T 1043.1-2008 |
| -20°C, notched | | 6 KJ/m ² | GB/T 1043.1-2008 |
| Thermal | | | |
| HDT | 0.45MPa | 90 °C | GB/T 1634.2-2004 |
| Vicat Point | A50 | 148 °C | GB/T 1633-2000 |
| Hardness | | | |
| Rockwell hardness | | 85 R-sacle | GB/T 3398.2-2008 |

Note: Typical properties, should not be used for specification work

Process suggestion

EP548R can be molded using standard injection molding machines.

The following processing parameters are for reference only:

Melt temperature: 200 - 250°C

Mold temperature: 15 - 40°C

Shrinkage rate 1-2%, Depends on thickness and molding parameters.

Package(s)

FFS bag: 25kg.

Storage

The product should be stored in a dry environment below 50°C and avoid ultraviolet radiation. Improper storage can cause degradation, resulting in peculiar smell, and negatively affect the physical properties of the product.

Expiration Date

Within 12 months after the production date.

For more information about safety and environment, please refer to our SDS or contact our customer service center.

Version Information

Date of first issue: April 01, 2021

Version No.: V 1.1

Date of second issue: May 15, 2021

Version No.: V 1.2

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The information provided here is for reference only. The specification will be provided in the quality certificate or in the contract. It is the user's responsibility to test the material and its suitability for a process. We have no control over what another party does with the material and we cannot take any responsibility for another party's action. Nor will we be responsible for any indirect damages while using our products. The user is welcome to contact our customer and technical service center with questions on our products.