


**KOREA PETROCHEMICAL IND.CO.,LTD**

HCPP Homo Polymer **HJ4045**
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**Classification :** HCPP Homo Polymer Injection grade  
**Attributes :** High Flowability, Scratch Resistance, Heat Resistance, Tapping Impact Strength, All Color 94HB  
**Applications :** Electric and Electronic Product Parts, Household Goods , Home Appliance Housings, PP Compound Base Resin

#### Documents & Certificates

**Spec Sheet :**  [kplic\\_spec\\_HJ4045\\_en.pdf](#)  
**MSDS :**  [kplic\\_msds\\_HJ4045\\_en\(1\).pdf](#)  
**FDA :**  [FDA Request](#)  
**RoHS :**  [kplic\\_RoHS\\_HJ4045\\_20130703.pdf](#)

#### Properties

| ITEM (TERM)                                                                                                                                                                                  | VALUE   | UNIT                             | TEST METHOD |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------|-------------|
| Melt Index                                                                                                                                                                                   | 45      | g/10min.                         | ASTM D1238  |
| Density                                                                                                                                                                                      | 0.91    | g/cm <sup>3</sup>                | ASTM D1505  |
| Mold Shrinkage                                                                                                                                                                               | 1.4~1.8 | %                                | KPIC Method |
| Tensile Strength at Yield                                                                                                                                                                    | 420     | kg <sub>f</sub> /cm <sup>2</sup> | ASTM D638   |
| Elongation at Break                                                                                                                                                                          | 40      | %                                | ASTM D638   |
| Flexural Modulus                                                                                                                                                                             | 21,000  | kg <sub>f</sub> /cm <sup>2</sup> | ASTM D790   |
| Hardness (Rockwell)                                                                                                                                                                          | 110     | R Scale                          | ASTM D785   |
| Impact Strength (Izod with Notch)                                                                                                                                                            | 3       | kg <sub>f</sub> cm/cm            | ASTM D256   |
| Melting Point                                                                                                                                                                                | 167     | °C                               | ASTM D3418  |
| Softening Point (Vicat)                                                                                                                                                                      | 156     | °C                               | ASTM D1525  |
| Heat Deflection Temperature                                                                                                                                                                  | 140     | °C                               | ASTM D648   |
| The values given above should only be used as a guide and should not be considered as a specification or guarantee.<br>The values are dependent on part geometry and fabrication conditions. |         |                                  |             |