

# INEOS HDPE HP54-60 FLK

High Density Polyethylene  
INEOS Olefins & Polymers USA

## Technical Data

### Product Description

HP54-60 Flake is a high density polyethylene copolymer flake which contains no additives and is not pelletized. It is designed for use in the plastic wood composite market.

### General

|                           |                                                                                                               |
|---------------------------|---------------------------------------------------------------------------------------------------------------|
| Material Status           | • Commercial: Active                                                                                          |
| Literature <sup>1</sup>   | • <a href="#">Processing - Injection Molding (English)</a><br>• <a href="#">Technical Datasheet (English)</a> |
| Search for UL Yellow Card | • <a href="#">INEOS Olefins &amp; Polymers USA</a>                                                            |
| Availability              | • North America                                                                                               |
| Features                  | • Additive Free • Copolymer                                                                                   |
| Uses                      | • Simulated Wood Parts                                                                                        |
| RoHS Compliance           | • Contact Manufacturer                                                                                        |
| Forms                     | • Flakes                                                                                                      |

| Physical                                                  | Nominal Value Unit | Test Method |
|-----------------------------------------------------------|--------------------|-------------|
| Density                                                   | 0.954 g/cm³        | ASTM D4883  |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)                 | 0.55 g/10 min      | ASTM D1238  |
| Mechanical                                                | Nominal Value Unit | Test Method |
| Tensile Strength <sup>3</sup> (Yield)                     | > 24.1 MPa         | ASTM D638   |
| Tensile Elongation <sup>3</sup> (Break)                   | > 600 %            | ASTM D638   |
| Flexural Modulus - Tangent                                | > 1030 MPa         | ASTM D790   |
| Hardness                                                  | Nominal Value Unit | Test Method |
| Durometer Hardness (Shore D)                              | 65                 | ASTM D2240  |
| Thermal                                                   | Nominal Value Unit | Test Method |
| Deflection Temperature Under Load<br>0.45 MPa, Unannealed | > 68.3 °C          | ASTM D648   |
| Brittleness Temperature                                   | < -75.0 °C         | ASTM D746   |

### Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> 51 mm/min