# Qplast™
# QPHD P0354A
## High Density Polyethylene

QPHD P0354A is a high-density polyethylene resin formulated for blow molding applications and contains an antistatic additive. It offers a good balance of stiffness and stress crack resistance.

| | |
|---|---|
| Supplier | Qplast |
| Additive | Thermal Stabilizer: Yes; Antistatic: Yes |
| Applications | • Drainage Pipes<br>• Food Packaging<br>• Household and Industrial chemical containers<br>• Pharmaceutical Packaging<br>• Thermoformed Parts<br>• Thin Gauge Sheet |
| Form(s) | Pellets |

### Resin Properties

| | Typical Value (English) | | Typical Value (SI) | | Test Method |
|---|---|---|---|---|---|
| Density | 0.954 | g/cm³ | 0.954 | g/cm³ | ASTM D1505 |
| Melt Index (190°C/2.16 kg) | 0.31 | g/10 min | 0.31 | g/10 min | ASTM D1238 |
| Peak Melting Temperature | 268 | °F | 131 | °C | ASTM D1238 |

### Thermal

| | | | | | |
|---|---|---|---|---|---|
| DTUL at 66psi — Unannealed | 160 | °F | 71 | °C | ASTM D648 |

### Molded Properties

| | | | | | |
|---|---|---|---|---|---|
| Tensile Strength at Yield | 4000 | psi | 28 | MPa | ASTM D638 |
| Flexural Modulus | | | | | ASTM D790 |
| 1% Secant | 150000 | psi | 1000 | MPa | |
| 2% Secant | 120000 | psi | 850 | MPa | |
| Environmental Stress-Crack Resistance<br>100% Igepal | 30 | hr | 30 | hr | ASTM D1693B |
| Durometer Hardness (Shore D, 15 sec) | 62 | | 62 | | ASTM D2240 |
| Charpy Notched Impact Strength | | | | | ISO 179/1eA |
| -4°F (-20°C) | 2.4 | ft·lb/in² | 5.0 | kJ/m² | |
| 73°F (23°C) | 4.3 | ft·lb/in² | 9.0 | kJ/m² | |

## Disclaimer

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1900 Spring Rd suite 430, Oak Brook, IL 60523