


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	
Additive	Thermal Stabilizer: Yes; Antistatic: Yes
Applications	<ul style="list-style-type: none"> • Drainage Pipes • Food Packaging • Household and Industrial chemical containers • Pharmaceutical Packaging • Thermoformed Parts • Thin Gauge Sheet
Form(s)	Pellets

Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.954 g/cm ³	0.954 g/cm ³	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
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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	30 hr	30 hr	ASTM D1693B
100% Igepal			
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/in ²	5.0 kJ/m ²	
73°F (23°C)	4.3 ft-lb/in ²	9.0 kJ/m ²	

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REV: 2024