



Qplast™ QPHD PO354N High Density Polyethylene

QPHD PO354N is a high-density polyethylene grade designed for blow molding applications, providing an excellent balance of stiffness and stress crack resistance.

Supplier			Oplast		
Additive			Thermal Stabilizer: Yes; Antistatic: No		
Applications			 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)	0.30	g/10 min	0.30	g/10 min	ASTM D1238
Thermal					
Deflection Temperature Under Load (DTUL) at 66psi — Unannealed	167	°F	75	°C	ASTM D648
Vicat Softening Temperature	261	°F	127	°C	ASTM D1525
Peak Melting Temperature	268	°F	131	°C	Proprietary Method
Crystallization Peak, Tc	244	°F	118	°C	Proprietary Method
Molded Properties					
Tensile Strength at Yield	4100	psi	29	MPa	ASTM D638
Tensile Strength at Break	2900	psi	20	MPa	ASTM D638
Elongation at Yield	8	%	8	%	ASTM D638
Flexural Modulus — 1% Secant 0.051 in/min (1.3 mm/min)	159000	psi	1096	MPa	ASTM D790A
Flexural Modulus — 2% Secant	131000	psi	910	MPa	ASTM D790
Environmental Stress-Crack Resistance 100% Igepal	30	hr	30	hr	ASTM D1693B

Durometer Hardness (Shore D, 15 sec)	63	63	ASTM D2240	
Impact				
Charpy Notched Impact Strength		ISO 179/1eA		
-4°F (-20°C)	2.9 ft·lb/in ²	6.0 kJ/m ²		
73°F (23°C)	4.8 ft·lb/in ²	10.0 kJ/m ²		
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