

TYPICAL PROPERTIES	PHYSICAL			MECHANICAL		SLOW CRACK GROWTH RESISTANCE		CONFORMANCE			SPECIFIC CHARACTERISTICS		
	Melt Indices			Density (23°C)	Flexural Modulus, 2% Secant	Tensile Stress @ Yield	Bent Strip ESCR, Condition B, f50 (100% Igepal®)	PENT on Black [Natural + MB] (2.4 Mpa, 80°C)	Hydrostatic Design Basis (HDB)		Cell Classification	Specific Characteristics	Typical Applications
	190 °C/ 2.16 kg	190 °C/ 5 kg	190 °C/ 21.6 kg						73°F	140°F			
ASTM Test Method	D1238			D1505	D790	D638	D1693	F1473	D2837		D3350		
Units of Measure	g/10 min			g/cm <sup>3</sup>	psi	psi	hr	hr	psi				
Conduit Resins													
<i>Alathon</i> L4930TC	0.3	1.1	26	0.949	136000	3600	>1000				PE 435540A	Balance of stiffness, toughness, and ease of processing, meets ASTM F2160, natural color, pellets	Conduit for fiber optic cable, electrical cable and telecommunications cable applications
<i>Alathon</i> L5040TC	0.39			0.949	138000	3600	>1000				PE 435580A		
<i>Petrothene</i> LT493501	0.34			0.948	131600	3500	>1000				PE 435530A		
Corrugated Resins													
<i>Alathon</i> 8005M-3	0.07			0.949	136000	3540	>1000				PE 445540A	Broad, bimodal molecular weight distribution	Non-pressure rated pipes for corrugated pipe, conduit and profile wall extrusion applications
<i>Alathon</i> L5332CP	0.32			0.953	160000	4000					PE 435500A	Meets the stress crack resistance requirement of AASHTO M294. Excellent processing stability and high crush resistance. NCLS >35 hrs per ASTM F2136	
Pressure Pipe													
<i>Alathon</i> L4904	0.04	0.18	7	0.949	146000	3500		5000	1600	1000	PE445574C CC3, PE445574E CC0, PE445576C CC3, PE445576E CC0	High resistance to pipe failure by rapid crack propagation and slow crack growth mechanisms; natural color; PE100, 10 MPa Minimum Recognized Strength (MRS) @ 20°C per ISO 12187	Pressure pipes for gas distribution, industrial piping, mining, oil and gas gathering, municipal water service lines and sewers
<i>Alathon</i> L5008HP	0.07		16	0.949	141000	3560		3200	1600	1000	PE 445574C CC1, PE 445574E CC0	Excellent processing characteristics, natural color; PE80, 8 MPa Minimum Recognized Strength @ 20°C per ISO 12187	Pressure pipes for industrial piping, mining, oil and gas gathering, municipal water service lines and sewers
Resins for Cross-Linked Pipes													
<i>Alathon</i> M5370PX	6.8			0.953	151000	4110					PE 415600A	High impact strength and stress crack resistance, excellent color, low odor and good processability	Used by customers as a base resin for PEX-b crosslink compounds
<i>Lupolen</i> 5261 Z Q 456			2	0.954	176000	4160					PE 446600A	HDPE with very high melt viscosity for ram extrusion of peroxide cross-linked pipes (PEX-a). Nominal 25 mesh powder	Drinking water pipe, plumbing, heating and cooling, and underfloor heating
<i>Lupolen</i> 5261 Z Q 456B		0.16	3	0.955	177000	4120					PE 446600A		
<i>Lupolen</i> 5461 B Q 471NA		0.27	10	0.954	154000	4020					PE 445500A	HDPE with high melt viscosity for extrusion of peroxide cross-linked pipes (PEX-a). Nominal 25 mesh powder	

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