

Selected Stock Resin Grades



ShawPolymers

SHAW POLYMERS POLYGEN SELECTED STOCK RESIN GRADES							
Product Grade	Melt Index g / 10 minutes	Density g / cc	Izod ft-lbs / in	Flexural Modulus - psi	Tensile Strength yield - psi	Elongation yield - %	Comments
High Density Polyethylene							
P.01050	10 HLMI	0.950	NA	175,000	3,600	600	Extrusion - HMW - Phillips Process
B.01050	10 HLMI	0.950	NA	150,000	3,500	500	Extrusion - HMW - Bi-Modal
F.01050	10 HLMI	0.950	NA	14/15 ¹	1.3/1 ²	300/400 ³	Extrusion - HMW - Film
P.01160	11 HLMI	0.960	NA	200,000	3,900	700	Extrusion - HMW - Phillips Process
P.01250	12 HLMI	0.950	NA	175,000	3,600	700	Extrusion - HMW - Phillips Process
B.01250	12 HLMI	0.950	NA	130,000	4,000	500	Extrusion - HMW - Bi-Modal
0346	0.3	0.946	NA	150,000	3,300	450	Blow Molding - Good ESCR
0355	0.35	0.955	NA	190,000	4,000	600	Blow Molding - HIC Applications
0355 G	0.35	0.955	NA	140,000	3,800	1000	Blow Molding - HIC Applications - Gas Phase
0355 P	0.35	0.955	NA	200,000	4,000	600	Blow Molding - HIC Applications - Phillips Process
446	0.4	0.946	NA	148,000	3,450	770	High Density Polyethylene - Blow Molding - Good ESCR
458	0.4	0.958	NA	150/200 ¹	4.5/2.5 ²	250/10 ³	Extrusion - Medium Molecular Weight - Film
4052	40	0.952	NA	155,000	4,000	10	Injection Molding - Housewares / Durables
0763	0.7	0.963	NA	200,000	4,400	450	Blow Molding - Dairy Grade
754	7	0.954	NA	170,000	4,100	1000	Injection - Pail Grade
865	8	0.965	NA	225,000	4,100	400	Injection - Crate Grade
1050	10	0.950	NA	170,000	4,100	1000	Injection - Pail Grade
1065	10	0.965	NA	225,000	4,000	400	Injection - Crate Grade
2053	20	0.953	NA	165,000	3,300	250	Injection - Housewares / Durables
Low Density Polyethylene							
0220	0.25	0.920	NA	25/30 ¹	3.5/3.5 ²	300/450 ³	Blown Film - Barefoot
0220-1	0.25	0.920	NA	25/30 ¹	3.5/3.5 ²	300/450 ³	Blown Film - Slip & Antiblock
0220-2	0.25	0.920	NA	25/30 ¹	3.5/3.5 ²	300/450 ³	Blown Film - Antiblock
0720	0.7	0.920	NA	30/35 ¹	3.5/3.0 ²	250/500 ³	Blown Film - Barefoot
0720-1	0.7	0.920	NA	30/35 ¹	3.5/3.0 ²	250/500 ³	Blown Film - Slip & Antiblock
0720-2	0.7	0.920	NA	30/35 ¹	3.5/3.0 ²	250/500 ³	Blown Film - Antiblock
221	2	0.921	NA	25/30 ¹	3.5/2.5 ²	300/550 ³	Cast Film / Liners / Gen. Purpose Pkg. - Barefoot
221-1	2	0.921	NA	25/30 ¹	3.5/2.5 ²	300/550 ³	Cast Film / Liners / Gen. Purpose Pkg. - Slip & Antiblock
221-2	2	0.921	NA	25/30 ¹	3.5/2.5 ²	300/550 ³	Cast Film / Liners / Gen. Purpose Pkg. - Antiblock
221 C	2	0.921	NA	25/30 ¹	3.5/2.5 ²	300/550 ³	High Clarity Film - Barefoot
717	7	0.917	NA	23/25 ¹	2.8/2.1 ²	200/500 ³	Extrusion / Injection - Housewares / Caps & Closures / Coatings
2018	20	0.918	NA	30/30 ¹	1.3/1.3 ²	80/80 ³	Injection - Lids / Caps
Linear Low Density Polyethylene							
2024	20	0.924	NA	60,000	1,100	60	Injection - Housewares / Compounding
2024 GRAN	20	0.924	NA	60,000	1,200	190	Injection - Housewares / Compounding - Granular
5025	50	0.925	NA	65,000	1,100	80	Injection - Housewares / Compounding
10029	100	0.929	NA	70,000	1,200	80	Injection - Housewares - Compounding
Linear Low Density Polyethylene Film							
B.118	1	0.918	NA	27/30 ¹	5.2/3.6 ²	580/730 ³	Film Grade - Butene - Barefoot
B.118-1	1	0.918	NA	27/30 ¹	5.2/3.6 ²	580/730 ³	Film Grade - Butene - Slip & Antiblock
B.118-2	1	0.918	NA	27/30 ¹	5.2/3.6 ²	580/730 ³	Film Grade - Butene - Antiblock
H.118	1	0.918	NA	29/33 ¹	6.4/5.5 ²	540/790 ³	Film Grade - Hexene - Barefoot
H.118-1	1	0.918	NA	29/33 ¹	6.4/5.5 ²	540/790 ³	Film Grade - Hexene - Slip & Antiblock
H.118-2	1	0.918	NA	29/33 ¹	6.4/5.5 ²	540/790 ³	Film Grade - Hexene - Antiblock
HAO.118	1	0.918	NA	31/35 ¹	6.8/5.7 ²	560/740 ³	Film Grade - Higher Alpha Olefin - Barefoot
HAO.118-1	1	0.918	NA	31/35 ¹	6.8/5.7 ²	560/740 ³	Film Grade - Higher Alpha Olefin - Slip & Antiblock
HAO.118-2	1	0.918	NA	31/35 ¹	6.8/5.7 ²	560/740 ³	Film Grade - Higher Alpha Olefin - Antiblock
B.218	2	0.918	NA	24.5/27.5 ¹	4.0/3.1 ²	450/700 ³	Film Grade - Butene - Barefoot
B.218-1	2	0.918	NA	24.5/27.5 ¹	4.0/3.1 ²	450/700 ³	Film Grade - Butene - Slip & Antiblock
B.218-2	2	0.918	NA	24.5/27.5 ¹	4.0/3.1 ²	450/700 ³	Film Grade - Butene - Antiblock
H.218	2	0.918	NA	29/19 ¹	5.5/4.2 ²	480/780 ³	Film Grade - Hexene - Barefoot
H.218-1	2	0.918	NA	29/19 ¹	5.5/4.2 ²	480/780 ³	Film Grade - Hexene - Slip & Antiblock
H.218-2	2	0.918	NA	29/19 ¹	5.5/4.2 ²	480/780 ³	Film Grade - Hexene - Antiblock
HAO.218	2	0.918	NA	30/30 ¹	6.3/4.2 ²	440/700 ³	Film Grade - Higher Alpha Olefin - Barefoot
HAO.218-1	2	0.918	NA	30/30 ¹	6.3/4.2 ²	440/700 ³	Film Grade - Higher Alpha Olefin - Slip & Antiblock
HAO.218-2	2	0.918	NA	30/30 ¹	6.3/4.2 ²	440/700 ³	Film Grade - Higher Alpha Olefin - Antiblock

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¹ Flexural Modulus MD/TD 10³, ²MD/TD Break 10³, ³Elongation at Break MD/TD.

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Homopolymer							
0500 H	0.5	0.9	0.5	230,000	5,100	11	Extrusion - Barefoot
200 H	2	0.9	0.5	250,000	5,200	6	Extrusion - Barefoot
200 HN2	2	0.9	0.5	250,000	5,200	6	Extrusion - Nucleation & Antistatic
200 HB	2.5	0.9	0.7	225,000	5,100	10	Extrusion - BOPP Application - Film - Barefoot
300 HL	3	0.9	0.5	250,000	5,400	9	Extrusion - Low Water Carry Over - Barefoot
400 H	4	0.9	0.5	280,000	5,500	7	Injection - Barefoot
500 HZ	5	0.9	0.5	250,000	5,350	9	Injection - Antistat
1200 H	12	0.9	0.5	220,000	5,200	9	Injection - Barefoot
1200 HN2	12	0.9	1	280,000	5,300	8	Injection - Nucleation & Antistatic
1900 HF	19	0.9	0.5	260,000	5,400	9	Injection - Fiber - Barefoot
2000 H	20	0.9	0.5	250,000	5,200	8	Injection - Barefoot
2000 HN2	20	0.9	0.7	270,000	5,300	7	Injection - Nucleation & Antistatic
3500 H	35	0.9	0.5	200,000	5,200	9	Injection - Barefoot
3500 HN2	35	0.9	0.5	275,000	5,500	7	Injection - Nucleation & Antistatic
3800 HF	38	0.9	0.5	189,000	4,900	11	Injection - Fiber - Barefoot
5500 HN2	55	0.9	0.5	280,000	5,500	7	Injection - Nucleation & Antistatic
Impact Copolymer							
0799 C	0.7	0.9	NB	180,000	3,800	10	Extrusion - High Impact - Barefoot
825 C	8	0.9	2.5	160,000	3,500	6	Injection - Barefoot
1235 C	12	0.9	3.5	180,000	3,900	6	Injection - Barefoot
1299 C	12	0.9	NB	165,000	3,500	6	Injection - High Impact - Barefoot
1299 CN	12	0.9	NB	165,000	3,500	6	Injection - High Impact - Nucleation
1299 CN2	12	0.9	NB	165,000	3,500	6	Injection - High Impact - Nucleation & Antistatic
2025 C	20	0.9	2.5	150,000	3,200	6	Injection - Barefoot
2099 C	20	0.9	NB	185,000	3,500	4.5	Injection - High Impact - Barefoot
2099 CN	20	0.9	NB	185,000	3,500	4.5	Injection - High Impact - Nucleation
3525 C	35	0.9	2.5	150,000	3,200	5.5	Injection - Barefoot
5015 C	50	0.9	2	158,000	3,100	6	Injection - Barefoot
8015 C	80	0.9	1.7	180,000	3,500	4	Injection - Barefoot
8015 CN2	80	0.9	1.7	180,000	3,500	4	Injection - Nucleation & Antistatic
Random Copolymer							
200 RC	2	0.9	5	150,000	4,200	14	Extrusion / Blow Molding - Clarified
1200 RC	12	0.9	1	145,000	4,000	12	Injection - Clarified
3500 RC	35	0.9	1	155,000	4,000	14	Injection - Clarified
8000 RC	80	0.9	1	150,000	3,900	14	Injection - Clarified
Polystyrene							
200	1.5	1.00	NA	400,000	7,500	NA	Extrusion - General Purpose - GPPS
320	3.0	1.00	2	300,000	3,500	50	Extrusion - High Impact - HIPS
400	3.5	1.00	NA	400,000	7,000	NA	Extrusion - General Purpose - GPPS
600	6	1.00	NA	400,000	6,500	NA	Injection - General Purpose - GPPS
820	8.0	1.00	2	300,000	6,500	NA	Injection - High Impact - HIPS
900	9	1.00	NA	320,000	6,500	NA	Injection - General Purpose - GPPS
1300	13.5	1.00	NA	450,000	6,500	NA	Injection - General Purpose - GPPS
1320	13	1.00	2	300,000	3,200	45	Injection - High Impact - HIPS