



SHAW POLYMERS POLYGEN SELECTED STOCK RESIN GRADES

Product Grade	Melt Index g/10 minutes	Density g/cc	Izod ft-lbs/in	Flexural Modulus 1% secant-psi	Tensile Strength yield-%	Elongation yield-%	Comments
Homopolymer							
200 H	2	0.9	0.5	250,000	5,200	6	Available with Nucleation / Antistat - 200 HNZ
1200 H	12	0.9	0.5	220,000	5,200	9	Available with Nucleation / Antistat - 1200 HNZ
2000 H	20	0.9	0.5	250,000	5,200	8	Available with Nucleation / Antistat - 2000 HNZ
3500 H	35	0.9	0.5	200,000	5,200	9	Available with Nucleation / Antistat - 2000 HNZ
Impact Copolymer							
0799 C	0.7	0.9	NB	180,000	3,800	10	Extrusion - Sheet / Film - High Impact
825 C	8	0.9	2.5	160,000	3,500	6	Injection - Battery Grade
1235 C	12	0.9	3.2	180,000	3,900	6	Injection - Medium Impact
1299 C	12	0.9	10+	165,000	3,500	6	Injection - High Impact - Good Low Temperature Impact
2025 C	20	0.9	2.5	150,000	3,200	6	Injection - High Melt - Good Balance of Properties
2099 C	20	0.9	10+	185,000	3,500	4.5	Injection - High Impact - Good Low Temperature Impact
3525 C	35	0.9	2.5	150,000	3,200	5.5	Injection - High Melt - Good Balance of Properties
Random Copolymer							
1200 RC	12	0.9	1	145,000	4,000	12	Clarified
3500 RC	35	0.9	1	155,000	4,000	14	Clarified
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	3,000	450	Blow Molding - Good ESCR
0355	0.35	0.955	NA	190,000	4,000	600	Blow Molding - HIC Applications
0763	0.7	0.963	NA	200,000	4,400	450	Blow Molding - Dairy Grade
754	7	0.954	NA	170,000	4,100	1,000	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	1,000	Injection - Crate Grade
1065	10	0.965	NA	225,000	4,000	400	Injection - Pail 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
0220-1	0.25	0.920	NA	25/30 ¹	3.5/3.5 ²	300/450 ³	Blown Film - Additive Package = Slip & Antiblock
0220-2	0.25	0.920	NA	25/30 ¹	3.5/3.5 ²	300/450 ³	Blown Film - Additive Package = Antiblock
0720	0.7	0.920	NA	30/35 ¹	3.5/3.0 ²	250/500 ³	Blown Film
0720-1	0.7	0.920	NA	30/35 ¹	3.5/3.0 ²	250/500 ³	Blown Film - Additive Package = Slip & Antiblock
0720-2	0.7	0.920	NA	30/35 ¹	3.5/3.0 ²	250/500 ³	Blown Film - Additive Package = Antiblock
221	2	0.921	NA	25/30 ¹	3.5/2.5 ²	300/550 ³	Cast Film / Liners / Gen. Purpose Pkg.
221-1	2	0.921	NA	25/30 ¹	3.5/2.5 ²	300/550 ³	Cast Film / Liners / Gen. Purpose Pkg. - Additive Package = 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. - Additive Package = Antiblock
717	7	0.917	NA	23/30 ¹	2.8/2.1 ²	200/550 ³	Housewares / Caps & Closures / Coatings
2018	20	0.918	NA	30/30 ¹	1.3/1.3 ²	80/80 ³	Lids / Caps



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Linear Low Density Polyethylene							
2024	20	0.924	NA	60,000	1,100	60	Housewares - Compounding
5025	50	0.925	NA	65,000	1,100	80	Housewares - Compounding
10029	100	0.929	NA	70,000	1,200	80	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
B.118-1	1	0.918	NA	27/30 ¹	5.2/3.6 ²	580/730 ³	Film Grade-Butene-Addictive Package=Slip & Antiblock
B.118-2	1	0.918	NA	27/30 ¹	5.2/3.6 ²	580/730 ³	Film Grade-Butene-Addictive Package=Antiblock
H.118	1	0.918	NA	29/33 ¹	6.4/5.5 ²	540/790 ³	Film Grade-Hexene
H.118-1	1	0.918	NA	29/33 ¹	6.4/5.5 ²	540/790 ³	Film Grade-Hexene-Addictive Package=Slip & Antiblock
H.118-2	1	0.918	NA	29/33 ¹	6.4/5.5 ²	540/790 ³	Film Grade-Hexene-Addictive Package=Antiblock
O.118	1	0.918	NA	31/35 ¹	6.8/5.7 ²	560/740 ³	Film Grade-Octene
O.118-1	1	0.918	NA	31/35 ¹	6.8/5.7 ²	560/740 ³	Film Grade-Octene-Addictive Package=Slip & Antiblock
O.118-2	1	0.918	NA	31/35 ¹	6.8/5.7 ²	560/740 ³	Film Grade-Octene-Addictive Package=Antiblock
B.218	2	0.918	NA	24.5/27.5 ¹	4.0/3.1 ²	450/700 ³	Film Grade-Butene
B.218-1	2	0.918	NA	24.5/27.5 ¹	4.0/3.1 ²	450/700 ³	Film Grade-Butene-Addictive Package=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-Addictive Package=Antiblock
H.218	2	0.918	NA	29/19 ¹	5.5/4.2 ²	480/780 ³	Film Grade-Hexene
H.218-1	2	0.918	NA	29/19 ¹	5.5/4.2 ²	480/780 ³	Film Grade-Hexene-Addictive Package=Slip & Antiblock
H.218-2	2	0.918	NA	29/19 ¹	5.5/4.2 ²	480/780 ³	Film Grade-Hexene-Addictive Package=Antiblock
O.218	2	0.918	NA	30/30 ¹	6.3/4.2 ²	440/700 ³	Film Grade-Octene
O.218-1	2	0.918	NA	30/30 ¹	6.3/4.2 ²	440/700 ³	Film Grade-Octene-Addictive Package=Slip & Antiblock
O.218-2	2	0.918	NA	30/30 ¹	6.3/4.2 ²	440/700 ³	Film Grade-Octene-Addictive Package=Antiblock
Polystyrene							
200	1.7	1.0	NA	400,000	7,500	NA	Extrusion-High Heat Crystal-General Purpose
320	3	1.0	2	300,000	3,500	50	Extrusion-High Impact
800	8	1.0	NA	400,000	6,500	NA	Injection-High Heat Crystal-General Purpose
820	8	1.0	2	300,000	6,500	45	Injection-High Impact
							¹ Secant Modulus MD/TD 10 ³ ² MD/TD Break 10 ³ ³ %Elongation at Break MD/TD.