

Pinnacle Polymers™ typical physical properties

Test	Melt Flow	Density	Additive Package	Tensile Yield Strength	Flex Modulus	Yield Elongation	Notched Izod	Gardner Impact	Haze	UL Listed	Comments
Test Method (1)	ASTM D1238	ASTM D1505		ASTM D638	ASTM D790A	ASTM D638	ASTM D256	ASTM D5420			
	grams/10 min	g/cc		kpsi	kpsi	%	ft-lb/in	in-lb	%		

Homopolymer

1703	3.5	0.9	LWCO	5.2	240	10	0.7			No	Slit film, high tenacity tape
1204A	4	0.9	A, LTHA	5.2	240	10	0.7			No	General purpose injection molding, high heat stability, low static
1704	4	0.9	LWCO	5.2	240	10	0.7			No	Slit film, high tenacity tape
1104A	4.8	0.9	A	5.2	240	10	0.7			No	Flexible drinking straws, other high-speed profile extrusion apps
1508	7.9	0.9	GP	5.1	240	9	0.6			No	Fiber, excellent UV stability
1512I	11	0.9	GP	5.0	240	9	0.6			No	Fiber, excellent color stability
1112	12	0.9	GP	5.0	240	9	0.6			Yes	General purpose injection molding
1112Z	12	0.9	N,A	5.7	280	8	0.7			No	Fast cycle times, excellent release
1517	20	0.9	AG	5.0	240	9	0.5			No	Fiber, excellent color, resiliency
1120H	21	0.9	N,A	5.7	280	8	0.6			Yes	Fast cycle times, excellent release
1120Z	22	0.9	N,A	5.8	290	7	0.6			No	Fast cycle times, excellent release, superior stiffness
1525	25	0.9	AG	5.0	235	9	0.5			No	Fiber, general purpose injection molding
1335Z	35	0.9	N,A	5.7	250	8	0.6			Yes	Fast cycle times, controlled rheology, excellent release
1635	35	0.9	AG	5.0	225	10	0.5			No	Extrusion coating, fiber, narrow molecular weight distribution
1640	40	0.9	AG	5.0	225	10	0.5			No	Fiber, narrow molecular weight distribution
1350N	55	0.9	N	5.8	290	8	0.5			No	Nucleated, injection molding
1355N1	55	0.9	N	5.7	290	8	0.5			No	Super-fast nucleated, injection molding

Impact Copolymer

2108	8	0.9	N,A	3.5	185	11	≥6	≥320		Yes	Excellent stiffness/impact
3208	8	0.9	LTHA	3.4	155	7	≥6	300		Yes	Excellent impact
3220	20	0.9	LTHA,N	3.4	165	7	≥3	200		Yes	Excellent stiffness/impact
2120H	20	0.9	N, A	3.5	180	11	≥3.5	150		Yes	Excellent stiffness/impact, nucleation and antistat
2135H	35	0.9	N,A	3.3	170	6	≥3.5	200		Yes	Fast cycle, excellent mold release
2135N	35	0.9	N	3.3	160	6	≥3.5	200		No	Fast cycle, nucleated
2150H	55	0.9	N,A	3.2	170	5	≥2	170		Yes	Fast cycle, excellent impact/stiffness
2160H	65	0.9	N,A	3.5	190	5	≥1.5	100		Yes	High flow, very fast cycle, excellent impact/stiffness
2180H	80	0.9	N,A	3.3	170	5	≥2	150		Yes	Very high Melt Flow, very fast cycle, excellent impact/stiffness

High Impact Copolymer

4208	8	0.9	LTHA	3.4	150	10	≥10	320		No	Excellent impact/stiffness, no-break, LTHA
4211	11	0.9	LTHA	3.4	150	7	≥10	320		No	Excellent impact/stiffness, no-break, LTHA
4220H	20	0.9	N,A	3.5	175	6	≥10	225		No	Excellent impact/stiffness, no-break, high flow
4130H	35	0.9	N,A	3.1	155	6	≥10	300		No	Excellent impact/stiffness, no-break, high flow

Random Copolymer

5112C	12	0.9	A,C	4.6	165	12	1.1		8	No	Excellent clarity, color
5120	20	0.9	GP	4.0	140	12	0.7			No	General purpose
5135C	35	0.9	A,C	3.7	137	12	1.1		9	No	High flow, excellent clarity, color
5135I2	35	0.9	A,C	3.7	137	12	1.1		8	No	High flow, excellent impact, excellent clarity, enhanced mold-release
5135K	35	0.9	A,C	3.7	137	12	1.1		8	No	High flow, excellent clarity, color
5155C	55	0.9	A,C	4.1	165	12	0.7		9	No	High flow, excellent clarity, color
5155IN	55	0.9	A,C	4.1	165	11	0.7		12	No	Very fast cycle time, excellent clarity, color

(1) Test Specimens (except for melt flow rate) were prepared by injection molding

Legend							
C	Clarified	A	Anti-stat	LTHA	Long Term Heat stabilized	AG	Anti-Gas Fading
GP	General Purpose	N	Nucleated			LWCO	Low Water Carry-Over