Common Processing Guide



Redefining Resin Distribution®

	Abbreviation	Material	Specific Gravity (g/cm³)	Drying Time (hrs.)	Drying Temperature (°F)	Dew Point (°F)	Target End Moisture (%)	Mold Temperature (°F)	Melt Temperature (°F)	Mold Shrinkage (in/in)
	ABS	Acrylonitrile Butadiene Styrene	1.03-1.07	2 to 4	158-176	n/a	0.05 - 0.10	100-160	410-465	.004007
	ABS FR	Acrylonitrile Butadiene Styrene Flame Retardant	1.19	3 to 4	158-176	n/a	0.05 - 0.10	100-140	390-450	.004007
	ASA	Acrylonitrile Styrene Acrylate	1.07	2 to 3	176-180	n/a	< 0.10	100-175	390-445	.004007
	COPE/TPC	Copolyester Elastomer***	1.17 - 1.29	3 to 4	190-210	-40	0.02	68-105	410-465	.013017
	_	Copolyesters***	1.25-1.27	3 to 6	160	-20	0.02	100-160	480-540	.002005
	PBT	Polybutylene Terephthalate***	1.30	4 to 5	248	-40	< 0.04	140-212	480-520	.017020
	PC/ABS	Polycarbonate/Acrylonitrile Butadiene Styrene Alloy***	1.08-1.22	4 to 6	140-176	-20	< 0.05	120-160	445-500	.004006
	PC/ABS FR	Polycarbonate/Acrylonitrile Butadiene Styrene Flame Retardant***	1.08-1.22	4 to 5	175-185	-20	< 0.05	130-170	455-510	.005008
	PC/Polyester	Polycarbonate/Polyester Alloy***	1.20-1.28	4 to 5	250	-40	< 0.03	80-180	465-480	.013015
	PEEK	Polyetheretherketone	1.30	2 to 3	248 - 302	-20	< 0.10	320-400	680-720	.009011
	PEI	Polyetherimide	1.27	4 to 6	300	-20	< 0.04	275-325	660-750	.005007
Hygroscopic	PES/PESU	Polyethersulfone	1.37	3 to 4	350	-20	< 0.05	245-305	660-680	.005007
rosc	PET	Polyethylene Terephthalate***	1.40	2 to 4	275	-40	< 0.02	140-290	470-560	.010017
Hygı	PMMA	Polymethyl Methacrylate (Acrylic)	1.18	2 to 5	165-200**	0	0.05 - 0.10	120-220	360-520	.002006
	PA 12	Polyamide 12***	1.01	2 to 4	175-210	-20	< 0.10	90-220	390-535	.006012
	PA 6	Polyamide 6***	1.13	2 to 4	180	-20	0.05 - 0.25	120-180	460-530	.010014
	PA 6/12	Polyamide 6/12***	1.06	2 to 4	180	-20	0.10 - 0.25	90-220	450-550	.010014
	PA 6/6	Polyamide 6/6***	1.14	2 to 4	175	-20	0.05 - 0.20	150-205	545-575	.017022
	PC	Polycarbonate***	1.20	3 to 5	250	-20	< 0.03	150-250	500-590	.005007
	PUR/TPU	Thermoplastic Polyurethane***	1.12-1.23	1 to 4	180-220**	-40	< 0.02	70-160	370-410	.008025
	POM	Polyoxymethylene (Acetal)	1.41	1 to 4	160-245	n/a	0.10	140-180	370-410	.018022
	PPA	Polyphthalamide***	1.13-1.20	3 to 4	250	-20	0.15	175-350	610-650	.010021
	PPSU	Polyphenylsulfone	1.29	2 to 3	300-350	-20	< 0.05	280-320	700-720	0.06-0.08
	PSU	Polysulfone	1.38	3 to 4	275-300	-20	< 0.05	275-320	660-690	.005009
	SAN	Styrene Acrylonitrile	1.07	2 to 4	160-200	n/a	0.10	105-180	375-450	.004007
oic	EVA	Ethylene Vinyl Acetate	.935955	3	120-150	n/a	0.05	50-70	300-400	.002007
	PE	Polyethylene*	.915965	2 to 3	120-150	n/a	0.05	70-150	380-450	.015025
	PP	Polypropylene*	.898910	1 to 2	150-180	n/a	0.05	60-120	400-450	.017022
	mPPO	Modified Polyphenylene Oxide	1.06	3 to 4	200-230**	n/a	0.05	160-220	540-610	.005007
doos	PS/GPPS*	Polystyrene*	1.04	1 to 2	140-180	n/a	0.05	100-160	420-475	.004007
Non-Hygroscopic	PPS	Polyphenylene Sulfide	1.68	2	300	-40	0.04	275-300	580-650	.002005
H-H	FPVC	Flexible Polyvinyl Chloride	1.15-1.48	1 to 2	140-150	n/a	0.10	70-100	330-390	.010024
No	RPVC	Rigid Polyvinyl Chloride	1.33-1.50	1 to 2	140-150	n/a	0.10	60-120	350-390	.003005
	TPE-S	Styrenic Thermoplastic Elastomer	0.98-1.10	2 to 4	150	n/a	0.10	40-150	400-480	.008015
	TPO	Thermoplastic Olefin	.898-1.16	1 to 2	150-180	n/a	0.15	60-120	390-450	.008016
	TPV	Thermoplastic Vulcanizate	.930968	3 to 4	175	n/a	0.06	80-150	380-450	.011023

^{**} Required drying temperatures are grade specific
*** Material will degrade with excess moisture

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- Product brochures and chips/plagues



Whether you have an existing application that you would like to improve upon or make lighter, or an idea for a new one sketched on a napkin, we're up to the challenge. Call 844-411-CHASE (844-411-2427) or email us at engineering@chaseplastics.com

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