

Polyfort compounds

Tailored formulas crafted to enhance performance
across various end-use applications



Polyfort from LYB provides customers with a unique and highly sought-after solution: a functional thermoplastic resin with a lower density. Crafted from advanced proprietary blends, these compounds deliver exceptional strength, stiffness and chemical resistance, ensuring durability under demanding conditions.

Product selection guide

Category	Description	Product	Specific Gravity (g/cm3)	Melt Flow (g/10 min) 230C / 2.16 kg	Tensile Strength (MPa)	Flexural Modulus (MPa)	Izod impact (J/m)	HDT (°C) 0.45 MPa	Attributes
Unfilled Polyfort	Low Impact PP	NPP00GD	0.9	8	26	965	99	93	Heat and UV Stable
	Medium Impact PP	PP1329HU	0.9	18	25	1120	120	80	Medium Impact, Heat and UV Stable
		PP3AO	0.9	8	27	1150	140	86	Medium Impact, Heat Stable
	High Impact PP	PP2173HU	0.9	15	20	800	500	85	High Impact, Heat and UV Stable
		PP5AO	0.9	8	21	980	640	-	High Impact, Heat and UV Stable
		PP6AO	0.9	8	18	840	710	-	High Impact, Heat Stable, UL-HB
		PPC-0520UR	0.9	20	-	965	590	-	High Impact, Heat and UV Stable, Lubricated
	Medical Grade PP	CP040	0.9	1	27	850	50	65	Heat Stable, Translucent, Antistatic, Available in Higher MF
	FDA PP	PP H521 WHITE	0.9	4	30	1500	37	-	Heat Stable, FDA
	HDPE	HD0204UV	0.95	7	26	800	80	88	Heat and UV Stable, UL-HB
	EVA & LDPE Blend	PU21713HMR	0.95	25	11	161	No Break	-	Very High impact, Heat and UV Stable
Talcum Filled Polyfort	10% Talc	FPP 2871-1255 FDA White	1.00	3.5	36	2300	-	130	Heat Stable, FDA
	10% Talc	TPP1B10	0.97	10	33	2000	37	113	
	10% Talc	TPP10AT	0.95	10	19	950	590	70	High Impact, Heat and UV Stable
	10% Talc	FPP 1902HU	0.98	28	30	1900	30	110	Improved Flow characteristics, High Heat and UV Stable
	15% Talc	TPP4C15	0.99	14	19	1450	270	-	Medium Impact, Heat and UV Stable
	15% Talc	FPP 2375HU	1.02	20	26	1800	65	109	Heat and UV Stable
	20% Talc	TPP3A20	1.05	7	25	1650	110	-	Heat and UV Stable
	20% Talc	FPP 1006	1.06	10	32	2700	50	126	High Heat and UV Stable, Lubricated, Extrusion Grade Available
	20% Talc	FPP 892	1.05	8	33	2700	70	126	High Heat Stable
	20% Talc	TPP2B20	1.05	10	28	2000	140	105	Medium Impact, Heat and UV Stable
	20% Talc	TPP20AO	1.06	4.5	31	2300	80	-	Heat and UV Stable, Lubricated, NSF available
	20% Talc	PP-68/TC/20	1.06	7	21	1750	240	80	Medium Impact, Heat Stable
	20% Talc	PP-60/TC/20	1.06	10	35	2300	27	99	Heat Stable, Lubricated
	20% Talc	TPP-0320QU	1.06	20	-	1550	160	-	Low Impact, Heat and UV Stable, Lubricated
	22% Talc	FPP 22T / LE	1.06	12	30	2500	30	120	High Heat Stable, Low Emission, UL - HB
	23% Talc	TPO-23T	1.06	11	-	1450	-	116	Low Impact, Heat Stable, Lubricated
	24% Talc	PP-60/TC/24/D2/HS	1.09	12	38	2900	37	-	High Heat Stable, Lubricated
	25% Talc	PPH MT25 H	1.14	5	35	2925	-	-	Heat Stable, NSF
	25% Talc	FPP 1697HU	1.14	18	20	2100	80	120	Heat and UV Stable
	25% Talc	TPO-25TQU	1.14	20	22	1460	540	-	High Impact, Heat and UV Stable

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Talcum Filled Polyfort	30% Talc	TPP4B30WU	1.15	8	25	2180	68	-	High Heat Stable, UL-HB
	30% Talc	TPP30A	1.15	10	30	2680	43		High Heat Stable, Lubricated, UL-HB
	30% Talc	PP-60/TC/30/FD	1.15	10	33	2950	30	132	Heat Stable, Lubricated, FDA grade
	30% Talc	TPO-30T	1.15	12	22	1600	475	-	High Impact, Heat Stable
	30% Talc	TPP1B30UV	1.15	10	32	3000	27	127	High Heat and UV stable, UL-HB
	30% Talc	FPP 1607	1.15	12	27	3500	35	115	Heat Stable, Lubricated, Antistatic, NSF
	33% Talc	TPP-0133Q	1.17	16	-	3650	38	-	Heat Stable
	35% Talc	TPP35Axxxxx	1.21	5	34	3850	27	129	Heat Stable
	40% Talc	ECHPTL40	1.25	2.5	34	3900	40	138	Heat Stable Extrusion grade
	40% Talc	TPP1A40	1.24	5	31	3650	27	132	Heat Stable, UL-HB
	40% Talc	TPP40Axxxxx	1.28	8	30.5	3400	27	135	Heat Stable
	40% Talc	FPP 40T LE	1.26	8	30	4000	30	133	High Heat and UV Stable, Low Emission
	40% Talc	FPP 1068	1.25	10	30	3600	27	130	High Heat Stable, Lubricated
	40% Talc	TPP-0140Q	1.25	16	29	3800	37	-	Heat Stable
	41% Talc	FPP 1007	1.28	10	32	3300	27	130	Heat Stable, NSF
	42% Talc	TPP1B40	1.25	10	31	3720	27	132	Heat Stable
	44% Talc	M-1812 BK3071	1.29	20	33	4600	23	140	Heat Stable
	45% Talc	FPP 2831	1.29	4	36	5300	30	145	Heat Stable, UL-HB

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Calcium Carbonate Filled Polyfort	5% CaCO3	CPP3B05	0.96	10	26	1360	135	-	Heat Stable, Lubricated
	5% CaCO3	CPP4B05	0.96	10	22	1330	200	-	Heat Stable
	10% CaCO3	CPP6A10	0.97	6	19	1050	650	-	High Impact, High Heat Stable, Lubricated
	10% CaCO3	LPP10B	0.97	11	30	1740	43	107	High Heat Stable, UL-HB
	10% CaCO3	LPP10Y	0.99	7	34	2000	54	116	Heat Stable
	10% CaCO3	CPP2B10	0.97	10	26	1700	100	70	FDA
	20% CaCO3	CPP1C20	1.05	18	28	1950	50	99	Heat Stable
	20% CaCO3	CPP2C20	1.05	20	24	1950	100	-	Heat Stable, UL-HB
	20% CaCO3	CPP3C20	1.05	18	23	1730	130	-	Heat and UV Stable, UL-HB
	20% CaCO3	LPP20B	1.07	17	23	1600	100	99	High Heat Stable, Lubricated, UL-HB
	20% CaCO3	GPP20Cxxxx	1.06	25	17	1100	200	113	Medium Impact, Heat Stable, UL-HB
	20% CaCO3	FPP 1245U	1.06	19	26	1930	80	-	Heat and UV Stable
	20% CaCO3	FPP 3707U	1.06	18	30	2020	40	115	High Heat Stable, UL-HB
	20% CaCO3	PP-60/CC/20	1.06	13	30	2000	32	121	Heat Stable
	21% CaCO3	FPP 3810	1.05	30	19	1330	110	80	Heat and UV Stable, NSF
	21% CaCO3	E-16313	1.05	8	19	1330	110	80	High Heat Stable, Lubricated, FDA
	24% CaCO3	CPP-0120	1.05	8	25	2000	60	-	Heat and UV Stable
	25% CaCO3	CPP1B25	1.10	11	29	2250	54	-	Heat Stable, UL-HB
	25% CaCO3	CPP5C25	1.10	15	18	1200	640	74	High Impact, Heat and UV Stable, UL-HB
	30% CaCO3	CPP30GF14BK	1.15	22	27	2500	50	100	Heat Stable
	30% CaCO3	GPP30CG43HB	1.15	22	27	2500	50	100	Heat and UV Stable, Lubricated
	30% CaCO3	PP-60/CC/30	1.16	13	28	2450	27	121	Heat Stable, Lubricated, UL-HB
	40% CaCO3	CPP6A40	1.25	5	15	1230	750	-	High Impact, Heat Stable, UL-HB
	40% CaCO3	CPP1B40	1.25	7	25	2900	64	-	Heat Stable
	40% CaCO3	CPP2B40	1.25	10	21	2600	130	-	Low Impact, High Heat and UV Stable
	40% CaCO3	FPP 1200 (H / NSF)	1.25	15	25	2600	42	-	Heat Stable, Antistatic, NSF
	40% CaCO3	ECHPCC40	1.25	1.3	25	2800	150	113	Extrusion grade, Heat Stable
	40% CaCO3	LPP40BC15NA	1.27	10	24	2950	37	124	Heat Stable
	70% CaCO3	LPP70BD37NA	1.65	10	17	4000	-	-	High Filler, Heat Stable
Short Glass Fiber Reinforced Polyfort	5% GF	FPP2B05	0.96	6	40	2010	80	149	Heat Stable
	5% GF	RPP05EU	0.96	6	41	2070	96	149	Heat Stable, NSF
	10% GF	PP 25-1503 GF10	0.97	15	36	1975	150	149	Medium Impact, Heat Stable
	10% GF	FPP1B10	0.97	9	45	2700	80	149	Heat Stable
	10% GF	FPP3B10	0.97	10	37	2690	110	149	Low Impact, Heat Stable
	10% GF	FPP5B10	1.00	7	40	2100	165	149	Medium Impact, Heat Stable, UL
	10% GF	RPP10EU	0.98	7	42	2550	70	149	Heat Stable, NSF (3rd party)
	10% GF	J-60/10/E	0.97	10	58	2800	57	149	Heat Stable, Lubricated
	15% GF	FPP 3539	0.99	10	55	3500	150	135	Heat and UV Stable, Lubricated
	15% GF	GPP-0215U	0.99	12	50	3000	80	-	Heat and UV Stable
	15% GF	FPP3B15	0.99	8	48	2900	120	149	Heat Stable

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Short Glass Fiber Reinforced Polyfort	20% GF	J-60/20/E	1.04	7.5	67	3400	77	155	Heat Stable, UL
	20% GF	J-68/20/E	1.04	10	55	3400	210	-	High Heat Stable, Lubricated, UL
	20% GF	FPP1A20	1.05	5	68	4050	80	157	Heat Stable, FDA Available
	20% GF	FPP3A20	1.05	10	60	3760	125	157	Heat and UV Stable
	20% GF	FPP2B20	1.05	7	65	4000	80	-	Heat Stable
	20% GF	FPP4B20	1.05	10	48	3250	150	-	Medium Impact, Heat and UV Stable
	20% GF	RPP20Exxxx	1.05	10	65	4500	80	155	Class VI USP, Medical, FDA
	20% GF	FPP 20GFC	1.05	6	70	4300	80	153	High Heat and UV Stable UL, Low Emission
	20% GF	FPP 1080	1.04	11	80	5000	100	145	High Heat Stable, Nucleated, UL
	20% GF	FPP 1220U	1.05	9	58	4100	130	150	Medium Impact, Heat and UV Stable, Gas Fade Resistant
	20% GF	FPP 1285	1.04	5	65	3700	89	157	High Heat Stable, Lubricated, UL
	20% GF	Aqualoy 125	1.03	6	72	4300	96	162	Heat Stable, NSF
	20% GF	GPP-0202 25	1.08	6	64	4300	120	140	Heat Stable
	25% GF	RPP25Exxxx	1.10	5	63	4650	75	154	High Heat Stable, UL-HB, Appliance rated
	25% GF	FPP1A25CC	1.10	6	69	4790	80	157	Heat Stable
	25% GF	FPP2B25CC	1.10	7	57	3800	160	154	Medium Impact, Heat Stable
	25% GF	J-60/25/E	1.10	11	78	4800	82	-	Heat Stable, Lubricated, Metal Deactivated
	30% GF	FPP 30 GFC (LE / K1079)	1.13	4	80	6000	100	160	High Heat and UV Stable, Lubricated, Low Emission
	30% GF	FPP 1239HU	1.13	12	80	7000	100	155	High Heat and UV Stable
	30% GF	Aqualoy 140	1.11	6	90	5500	100	160	NSF
	30% GF	GPP-0330Q	1.14	8	80	5860	110	160	Heat and UV Stable, Lubricated
	30% GF	FPP1A30	1.14	5	88	6200	90	160	Heat Stable
	30% GF	FPP3B30CC	1.13	8	63	4750	140	157	Medium Impact, Heat Stable
	30% GF	FPP3B30	1.14	6	68	4675	175	157	Medium Impact, High Heat Stable, UL-HB
	30% GF	FPP5A30HC	1.13	5	61	4600	230	150	Medium Impact, UL-HB, SBD Dewalt Yellow
	30% GF	RPP30Exxxx	1.13	5	75	5000	110	160	High Heat Stable, UL-HB
	30% GF	J-60/30/E	1.13	8	72	5900	91	154	Heat Stable, UL-HB, NSF
	30% GF	J-69/30/E/M	1.13	13	100	6200	95	160	Heat Stable, Crystalline
	30% GF	HD0235G30	1.2	3	60	-	-	-	HDPE Based, Heat Stable
	35% GF	FPP3B35WUBK	1.17	8	77	5900	155	-	High Heat Stable, UL-HB
	35% GF	FPP 35 GFC LM	1.16	6.5	90	7500	175	160	Heat and UV Stable, Laser Markable
	35% GF	FLP 674	1.21	8	60	6500	61	123	Heat Stable, HDPE Based
	40% GF	J-60/40	1.22	6	100	8200	200	157	High Heat Stable, UL-HB
	40% GF	FPP 40 GFC LE	1.21	4	100	8300	250	159	High Heat and UV Stable, Low Emission
	40% GF	FPP 40 GFC SHI	1.22	1.35	75	7500	400	154	Super High impact, High Heat Stable, Metal Deactivated
	40% GF	FPP1A40	1.23	3	98	8150	105	160	High Heat Stable, UL-HB
	40% GF	RPP40Exxxx	1.23	3	100	8300	115	163	High Heat and UV Stable, NSF and UL-HB
	40% GF	130-3040	1.23	6	100	-	106	-	Heat Stable
	40% GF	CP0436G40C	1.22	5	95	7700	175	158	Medium Impact, Heat Stable

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Miscellaneous & Hybrid Polyfort	60% BaSO4	LD0135B60	1.80	11	-	-	-	-	EVA Based, Heat Stable
	25% Wollastonite	FPP 2478U	1.10	10	22	2750	400	-	High impact, High Heat and UV Stable, Lubricated, Nucleated
	30% Talc/CaCO3	XPP3C30	1.05	20	25	2600	70	-	Heat Stable
	20% Talc/Wollastonite	TPO-20NBTXU	1.05	16	-	1400	440	-	High Impact, Heat and UV Stable, Lubricated
	25% Glass Fiber/Glass Beads	RPP25DZxxxx	1.08	9	42	3000	40	152	Heat Stable, NSF (3rd party)
	30% Glass Fiber/Glass Beads	RPP30DZxxxx	1.13	19	46	3975	43	159	Heat Stable
	20% Glass Fiber/Talc	APP20GM01	-	1.1	-	-	-	-	High Heat Stable, Lubricated
	15% Glass Fiber/Talc	SPP3B15CC	-	10	40	2550	75	-	Heat Stable, UL-HB
	20% Glass Fiber/Talc	SPR3B20CC	1.05	8	42	2750	75	-	Heat Stable, Lubricated (Mold Release)
	20% Glass Fiber/Talc	SPP3A20CC	1.05	1	34	2700	150	-	Medium Impact, Heat Stable
	27% Glass Fiber/Talc	APP30GP04	1.11	16	44	3500	37	154	Heat Stable
	31% Glass Fiber/Talc	APP30GMxxxx	1.12	8	44	4000	97	-	Heat and UV Stable
	40% Glass Fiber/Talc	APP40GR22HB	1.26	4	44	4750	47	157	Heat Stable, UL-HB
	40% Glass Fiber/Talc	HPP40GR09	1.24	4	55	4800	100	153	High Heat Stable, GMW 15702 Spec
	35% Glass Fiber/Talc	FPP 1640	1.20	8	60	5800	63	160	Heat Stable
	40% Glass Fiber/Talc	SPP1A40HB	1.24	3	56	5200	54	-	Heat Stable, UL-HB
	30% Glass Fiber/Talc	SPP1A30HB	1.13	5	70	5200	70	-	Heat Stable, UL-HB
	30% Glass Fiber/Talc	SPP3A30HB	1.13	8	55	3870	120		Medium Impact, Heat Stable, UL-HB
	42% Glass Fiber/Talc	SPP3A40	1.20	3	49	4475	135	-	Medium Impact, Heat Stable
	35% Glass Fiber/Talc	SPP1A35	1.18	4	72	5450	69	-	Heat Stable
	40% Glass Fiber/CaCO3	FPP40GR75	1.23	7.5	80	7000	85	158	Heat Stable, UL-HB
	35% Glass Fiber/Mica	E-10299	1.20	13	37	-	-	-	Heat Stable
	30% Glass Fiber/Mica	E-13018	1.12	5.5	53	-	-	-	Heat Stable, Lubricated
	20% Glass Fiber/Mica	HPP20GRxxxx	1.05	5	53	3600	50	-	High Heat Stable, UL-HB
	31% Glass Fiber/Mica	HPP30GR20BK	1.15	5	60	4400	100	155	High Heat Stable
	30% Glass Fiber/Mica	COMTUF 106 N	1.12	4.5	68	-	-	-	Heat Stable
	30% Glass Fiber/Mica	FPP 2369	1.13	4.5	65	5000	150	-	Medium Impact, Heat Stable, Lubricated
	40% Glass Fiber/Mica	HPP40GR70	1.23	8	70	7000	69	157	High Heat Stable
	42% Glass Fiber/Mica	Aqualoy 145 N	1.24	4	100	7700	100	158	Heat Stable, UL-HB, NSF
	40% Glass Fiber/Wollastonite	YPP1B40	1.24	7	65	5590	62	154	
	35% Glass Fiber/Wollastonite	E-14337	1.16	6	90	-	-	-	Heat Stable
	40% Glass Fiber/Wallastonite	E-16306	1.23	5.5	90	-	-	-	High Heat Stable, FDA
	40% Glass Fiber/Wollastonite	TEMPALLOY 105 N	1.22	6	100	-	-	-	Heat Stable
	9% Glass Fiber + 9% Talc + 14% CaCO3	QPP1B30UVxx	1.05	20	35	3750	37	-	High Heat and UV Stable, Gas Fade Resistant



About us

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