

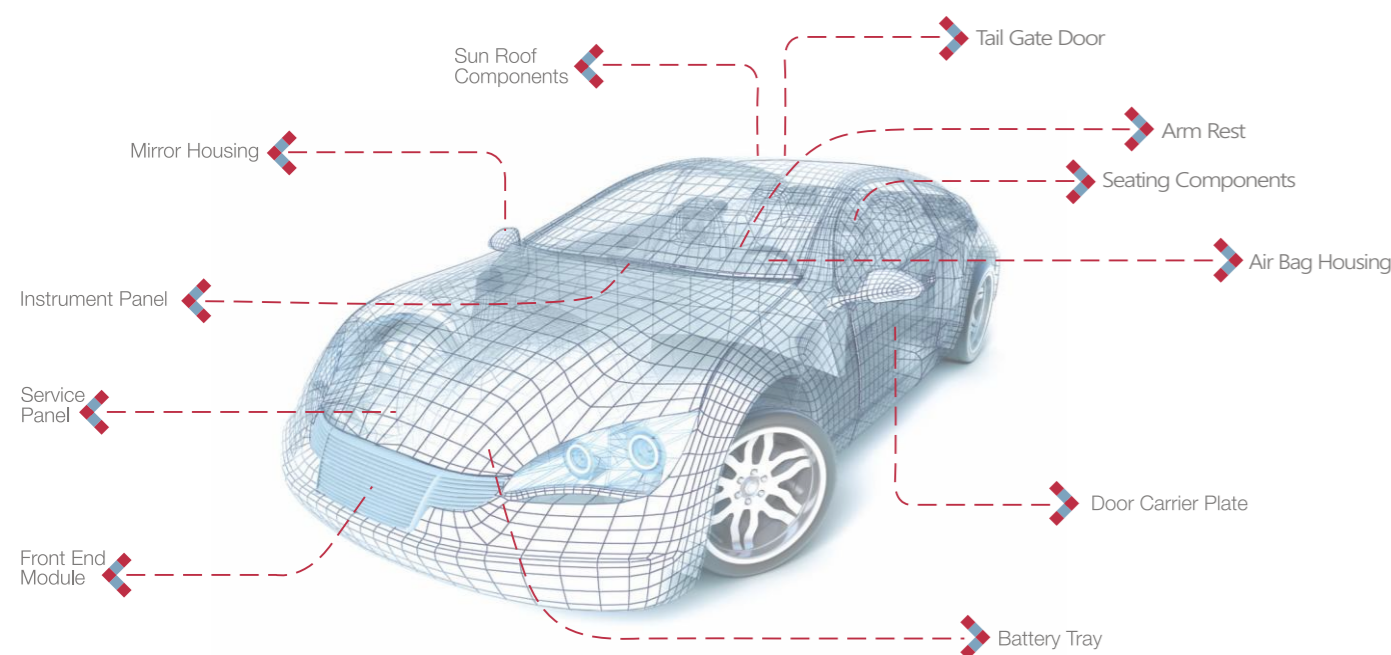
**POLYTRON® – Long Glass Fiber Compounds: PP, PA6, PA66**

			20% LGF	30% LGF	30% LGF, Copolymer	40% LGF	50% LGF	60% LGF
Property	ISO	Unit	POLYTRON® P20B01	POLYTRON® P30B01	POLYTRON® P30B03	POLYTRON® P40B01	POLYTRON® P50B01	POLYTRON® P60B08-S*
Density	-	g/cm³	1.03	1.11	1.11	1.22	1.33	1.46
Mold Shrinkage Flow Direction	-	%	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.15	0.1	0.1
Mold Shrinkage Cross Flow Direction	-	%	0.4-0.5	0.35-0.45	0.35-0.45	0.25-0.3	0.2	0.1-0.15
Tensile Strength	527	MPa	95	110	90	125	135	135
Tensile Modulus	527	MPa	5300	7000	6200	10000	12500	15500
Elongation at Break	527	%	2.5	2.2	2.4	2	1.8	1.4
Flexural Strength	178	MPa	140	155	135	190	220	200
Flexural Modulus	178	MPa	5000	6600	6000	9000	12000	15000
Un Notched Charpy Impact	179	kJ/m²	40	50	55	65	65	60
Un Notched Charpy Impact@ -30C	179	kJ/m²	35	40	65	50	50	50
HDT	75	C	155	155	150	157	157	158

\* Dilution grade

All grades are available in a **Low Emission** version.

All grades are available in various levels of heat stabilization, comply with any automotive OEM's standards.



**Thermoplastic Compounds - Products**

- |  |   |
|--|---|
| <b>PLUSTEK</b><br>PA66, PA6, PA12, PPA | <b>RAMSHINE</b><br>ABS, ASA, PS, SAN, AES   |
| <b>RAMSTER</b><br>PBT, PET             | <b>POLYTRON®</b><br>LGF PP & PA   |
| <b>RAMTOUGH</b><br>PC                  | <b>RAMLLOY</b><br>PBT/ASA, ASA/ABS, PA/ABS,<br>PBT/ABS, PC/PBT, PC/ABS,<br>PA/PE, PA/PP, PPE/PS, PPE/PA |
| <b>RAMTAL</b><br>POM                   | <b>RAMTON</b><br>PPS  |
| <b>RAMOFIN</b><br>PP, PE               | <b>RAMOTAN</b><br>TPU   |

**Enhanced with a wide variety of additives and reinforcements**

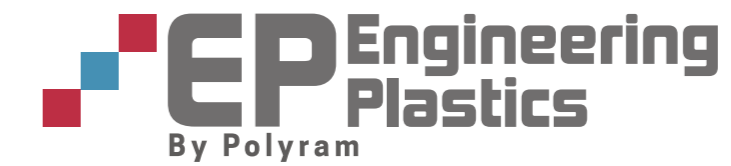
- Glass Reinforced (SGF, LGF & GB)
- Mineral Filled
- Flame Retardant
- Impact Modified
- Heat Stabilized & High Heat
- UV Stabilized
- Lubricated
- Colored
- Hydrolysis Resistant
- Wear Resistant



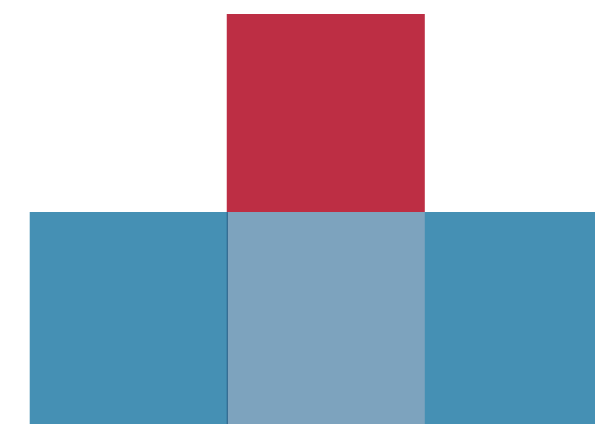
Polyram Plastic Industries Ltd. Ram-On 1920500 Israel  
Tel: 972-4-6599900 Fax: 972-4-6499763 E-mail: mail@polyram-group.com  
[www.polyram-group.com](http://www.polyram-group.com)



07/2019



**Polyram Selective Compounds Portfolio**



### PLUSTEK - Polyamide 66 Compounds

			PA66 Unfilled, FDA	PA66 30% GF Reinforced	PA66 30% GB Reinforced	PA66 Super Tough	PA66 20% GF+GB Reinforce	PA66 NSF 35% GF, UV, Burst Toughened
Property	ISO	Unit	PLUSTEK PA100	PLUSTEK PA301G6	PLUSTEK PA340S6	PLUSTEK PA860	PLUSTEK PA3005J4	PLUSTEK PA7001G7
Density	-	g/cm3	1.14	1.36	1.36	1.06	1.27	1.41
Tensile Strength	527	MPa	85	180	85	85	130	200
Tensile Modulus	527	MPa	1300	10000	4350	1600	6700	11000
Elongation	527	%	4.5	2.8	4	20	2.3	2.7
Notched Izod Impact Strength	180	kJ/m2	5	10	3.6	90	5	12



PLUSTEK PA66, GF, UV



PLUSTEK PA66, GF, Impact, Heat Stabilized



PLUSTEK PA66, GF, Hydrolysis Resistant



PLUSTEK PA66, Impact, Laser Printable

### PLUSTEK - Polyamide 6 Compounds

			PA6 Unfilled	PA6 30% GF Reinforced	PA6 30% GB Reinforced	PA6 Impact Modified	PA6 15% GF Impact Modified	PA6 Flame Retardant
Property	ISO	Unit	PLUSTEK PB145	PLUSTEK PB300G6	PLUSTEK PB340S6	PLUSTEK PB845	PLUSTEK PB826G3	PLUSTEK PB507
Density	-	g/cm3	1.13	1.36	1.35	1.09	1.17	1.17
Tensile Strength	527	Mpa	87	175	65	56	90	70
Tensile Modulus	527	MPa	3500	9800	4300	2200	4600	3430
Elongation	527	%	3.8	2.9	5.2	4	3.4	3.5
Notched Izod Impact Strength	180	kJ/m2	3.8	14	3.8	60	20	3.8
Flammability	UL	UL 94	HB	HB	HB	HB	HB	V0 @ 3, 1.6 & 0.8mm



PLUSTEK PA6, GF, Impact Modified



PLUSTEK PA6, FR



PLUSTEK PA6, GF, Low Water Absorption, UV, Resistance to High Pressure



PLUSTEK PA6, High Impact in Low Temperature

### RAMSTER - Polybutylene Terephthalate (PBT) Compounds

			PBT Unfilled	PBT 30% GF Reinforced	PBT 20% GB Reinforced	PBT Impact Modified	PBT/PET 30% GF, UV	PBT 30% GF Reinforced, FR
Property	ISO	Unit	RAMSTER PF201	RAMSTER PF300G6	RAMSTER PF340S4	RAMSTER PF811	RAMSTER PF310G6	RAMSTER PF321G6
Density	-	g/cm3	1.31	1.52	1.45	1.22	1.65	1.67
Tensile Strength	527	MPa	60	135	50	35	135	135
Tensile Modulus	527	MPa	2600	9600	3200	1550	10500	10600
Elongation	527	%	14	3	5	4.5	2.4	2.4
Notched Izod Impact Strength	180	kJ/m2	4	15	2	60	10	10



RAMSTER PBT, GF



RAMSTER PBT/PET, GF, UV, Impact



RAMSTER PBT, GF



RAMSTER PBT, GF, Impact, Hydrolysis, Hi Flow

### RAMOFIN - Polypropylene Compounds

			PP 20% Talc Filled, UV	PP 30% GF, NSF, FDA	PP 40% GF & Minerals Reinforced	PP 30% GF, Impact Modified	PP UV, 40% GF, HS	PP 20% GF Reinforced, Super Light
Property	ISO	Unit	RAMOFIN PPH346T4	RAMOFIN PPH301G6	RAMOFIN PPC312I8	RAMOFIN PPC8001G6	RAMOFIN PPH308G8	RAMOFIN PPC502
Density	-	g/cm3	1.07	1.11	1.22	1.11	1.22	0.9
Tensile Strength	527	MPa	30	92	65	60	90	25
Tensile Modulus	527	MPa	2400	6550	6700	5500	8400	1250
Elongation	527	%	4.6	3.3	3.5	7.1	3.8	5.6
Notched Izod Impact Strength	180	kJ/m2	2.6	14	10.7	32	17	5.3
Flammability	UL	UL 94	HB	HB	HB	HB	HB	V2 @ 3, 1.6 & 0.8



RAMOFIN PP, GF, Heat Stabilized



RAMOFIN PP, FR



RAMOFIN PP, GF, WRAS Approved



RAMOFIN PP, GF, UV, Heat Stabilized

### RAMTAL - Polyacetal (POM) Compounds

			POM Unfilled, UV	POM 30% GF Reinforced	POM Impact Modified	POM Lubricated 20% PTFE	POM Lubricated MoS2	POM Homopolymer, Lubricated, UV
Property	ISO	Unit	RAMTAL PM7009	RAMTAL PM3007G6	RAMTAL PM8515	RAMTAL PM1409	RAMTAL PM1609	RAMTAL PMH4501
Density	-	g/cm3	1.41	1.61	1.37	1.52	1.44	1.41
Tensile Strength	527	MPa	64	120	40	50	60	60
Tensile Modulus	527	MPa	2900	10000	1400	4200	2500	2700
Elongation	527	%	8.5	2	15	50	50	17
Notched Izod Impact Strength	180	kJ/m2	7.5	9	13	4.6	5.5	7.5



RAMTAL POM, Impact Modified



RAMTAL POM, UV Stabilized



RAMTAL POM, GF



RAMTAL POM, Impact Modified, UV

### RAMLLOY - Customized Polymer Alloy Compounds

			PC/PBT	PBT/ASA 30% GF	PA/PE 30% GB, Impact Modified, UV	PA/ABS UV, Impact Modified	PC/ABS FR	PPE/PA 20% GF, Impact Modified, UV
Property	ISO	Unit	RAMLLOY PZF101	RAMLLOY PFS301G6	RAMLLOY B780S6	RAMLLOY PVB702	RAMLLOY PBB503	RAMLLOY PN8006G4
Density	-	g/cm3	1.23	1.47	1.29	1.04	1.17	1.2
Tensile Strength	527	MPa	50	125	52	40	60	120
Tensile Modulus	527	MPa	2000	9700	2650	1800	2700	7400
Elongation	527	%	4.2	2.4	4.1	3.3	30	4
Notched Izod Impact Strength	180	kJ/m2	50	4.1	25	60	50	15



RAMLLOY PBT/ASA, PC/ABS, GF



RAMLLOY PBT/PC



RAMLLOY PA/ABS, UV, Impact Modified, OEM colors



RAMLLOY PC/ABS UV, Hi Flow