

# PLASTIC IDENTIFICATION & INFORMATION

Densityg/cm <sup>3</sup>	Abbrev.	Material	Softening or Melting Ranges (°C)	Cost Group
0.83	PMP	Polymethylpenetene (TPX)	about 240	High
0.90	PP	Polypropylene	160 - 170	Low
0.91 - 0.93	LDPE	Low Density Polyethylene	about 110	Low
0.94 - 0.97	HDPE	High Density Polyethylene	about 130	Low
1.0 - 1.2	SI	Silicone Resins	Does not melt	High
1.01 - 1.04	PA12	Nylon 12	170 - 180	High
1.03 - 1.05	PA11	Nylon 11	180 - 190	High
1.04 - 1.06	ABS	Acrylonitrile Butadiene Styrene	90 - 110	Medium
1.04 - 1.08	PS	Polystyrene	80 - 95	Low
1.04 - 1.08	HIPS	High Impact Polystyrene	80 - 90	Medium
1.04 - 1.08	SAN	Styreneacrylonitrile	100 - 105	Medium
1.06	Mod PPE	Polyphenylene Ether	100 - 175	High
1.07 - 1.09	PA 6,10	Nylon 6, 10	210 - 220	High
1.12 - 1.15	PA 6	Nylon 6	215 - 225	High
1.12 - 1.15	PA 6,6	Nylon 6, 6	260 - 270	High
1.1 - 1.4	EP	Epoxy Resins	Does not melt	High
1.1 - 1.4	UP	Unsaturated Polyester resins	Does not melt	Medium
1.15 - 1.35	CA, CAB	Cellulose	125 - 175	High
1.16 - 1.20	PMMA	Polymethylmethacrylate (acrylic)	90 - 100	Medium
1.2 - 1.35	PPVC	Plasticized Polyvinyl Chloride	70 - 90	Low
1.2 -	PC	Polycarbonate	140 - 150	High
1.30 - 1.41	PF	Phenol Formaldehyde	Does not melt	Low
1.31 - 1.38	PBT	Polybutylene Terephalate	220 - 260	Medium
1.33 - 1.41	PET	Polyethylene Terephalate	250 - 260	Medium
1.38 - 1.41	UPVC	Unplasticized Polyvinyl Chloride	70 - 100	Low
1.41 - 1.43	POM	Polyoxymethylene (Polyacetal)	160	High
1.47 - 1.52	UF	Ureaformaldehyde	Does not melt	Medium
1.47 - 1.52	MF	Melamine Formaldehyde	Does not melt	High
2.1 - 2.3	PTFE	Polytetrafluoroethylene	330	Very High

**Table 1**

*Plastic Materials Abbreviations, Density, Softening Temperature Ranges, and Relative Cost.*

## Guide to Plastics

This information was provided by the car companies as at June 1987 and is provided as a guide only to originally painted parts. The exterior parts used by O.E.M\*, local and imported current models only.

\*The type of plastic used may change at any time. The information given on this list is given in good faith, but without warranty.

<u>Vehicle MFCT</u>	<u>Model</u>	<u>Part</u>	<u>Plastic</u>
<b>Alfa Romeo</b>	GTV 6	Front/Rear Bumper	PP/EPDM
		Front Air Grille & Spoiler	PP/EPDM
		Door Spoiler	PP/EPDM
		Rear Wheel Arches	PP/EPDM
<b>Alfasud</b>	T1	Front/Rear Bumpers	PP/EPDM
		Front/Rear Spoilers	PUR (R.I.M.)
		Door Sills	PC
<b>Alfa</b>	33 Guilietta	Bumpers	PP/EPDM
		Bumpers	PUR (RIM)
<b>Aston Martin Lagonda</b>		Front/Rear Bumpers	PUR (RIM)
<b>Audi</b>	80	Bumpers	PP/EPDM
	100	Bumpers	PP/EPDM
	200	Spoiler	PUR (RIM)
	2005E & T	Front Spoiler	PUR (RIM)
<b>BMW</b>	320i	F & R Bumpers	PP/RPDM
	7 Series	Spoilers	PUR (RIM)
<b>Chrysler</b>	Jeep	F & R Bumper Bars	PP/EPDM
	Voyager	Wheel Arch Flares F & R Bumpers	PP/EPDM PP/EPDM
<b>Citroen</b>	BX	Bonnet	
		Rearside Panels	
		Tailgate	GRP
	VISA	Grille	
		Petrol Flap	PA
		Bumpers	PP/EPDM
	Rear Quarter Panels	PC	
	Front/Rear Bumpers	PP/EPDM	
	Radiator Grille	ABS	
<b>Daewoo</b>	Cielo	F & R Bumpers	PP
	Korando	F & R Bumper Bars	PP/EPDM
		Wheel Arch Flares & Side Panels	PP/PDM
	Lanos Matiz	F & R Bumpers Bumper Bars	PP/EPDM PP/EPDM
<b>Datsun</b>		See Nissan	
<b>Daihatsu</b>	Charade	Radiator Grille	ABS
<b>Eunos</b>	30 Series	F & R Bumpers	PP/EPDM

<b><u>Vehicle MFCT</u></b>	<b><u>Model</u></b>	<b><u>Part</u></b>	<b><u>Plastic</u></b>
<b><i>Fiat</i></b>	126	Front/Rear Bumpers	PP
	127	Front/Rear Bumpers	PP
		Side Body Mouldings	PP
		Front & Rear Bumpers	PP
		Radiator Grille	ABS
	131 Diesel	Front & Rear Bumpers	PP
		Radiator Grille	ABS
	131 Sport	Front & Rear Bumpers	PC
	132	Front & Rear Bumpers	PP
		Front & Rear Bumpers	PP
	Side Mouldings	PP	
Argenta	Front & Rear Bumpers	PP	
Regatta	Bumpers	PP	
Ducato	F & R Bumpers	PP/EPDM	
	Side Panels	PP/EPDM	
<b><i>Ford</i></b>	1979-88 XD-XF	Front & Rear Bumper Bar	PUR (RIM)
	Fairmont, LTD to 88	Front & Rear Bumpers	PUR (RIM)
	Falcon/Fairlane	Grilles	ABS
	1989-2000 EA-EL	F & R Bumpers	PP/EPDM
	EF XR6 & XR8	Front Bar	PUR
		Ute Rear Bar	PP/EPDM
		Radiator Shroud	PA
	XD-XF Utility	Bumpers	PUR (RIM)
	XG-XH Utility	Front Bar	PUR
		Rear Bar	PP/EPDM
	AU Std models	Bumper Bars	PP/EPDM
	XR & TS50	Bumper Bars	PUR
	BA - Falcon /Fairmont /Fairlane	Bumper Bars	PP/EPDM
		Skirt Under Front Bar	PC/ABS
		Rear Bar	ABS
	BA - Utility	Rear Bumper Bar	ABS
		Side Body Kit	PC/ABS
	GT	Front Bumper Bar	PUR
	Telstar to 85	F & R Bumpers	PP
	85 on		PP/EPDM
Laser/Meteor to 85	F & R Bumpers	PP	
85 on		PP/EPDM	
Explorer	F & R Bumpers	PP/TPR	
Festiva	F & R Bumpers	PP/TPR	
Mondeo	F & R Bumper	PC/PBT	
Mondeo HC-HE	F & R Bumpers	PUR	
Taurus	F & R Bumpers	PC/PBT	
<b><i>Mustang</i></b>	GT	F & R Bumpers	PP
<b><i>Lexus</i></b>	`94 300	F & R Bumpers	PUR
	Sport 2000	F & R Bumpers	PP/EPDM
<b><i>Mazda</i></b>	`98 sedan	F & R Bumpers	PP/EPDM
	636	Radiator Grille	ABS
		Side Protector Mouldings	PVC
	121	Radiator Grille	ABS
		Front and Rear Bumpers	PP
		Side Protector Mouldings	PVC

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<b><i>Mazda (cont.)</i></b>	323 - 85 323 - 85 on' 626	Bumper Bars	PP	
		Bumper Bars	PP/EPDM	
		Radiator Grille	PP/EPDM	
	929	Side Protection Mouldings	ABS	
		Rear Pillar Garnish	PVC	
		Front and Rear Bumpers	ABS	
		Radiator Grille	PP	
		Side Protective Mouldings	ABS	
		PC & PBT		
	MX5 RX7	Bumper Bars	PUR (RIM)	
		Bumper Bars	PUR (RIM)	
	E Series Van Coupe/MX6	Sliding Sunroof	GRP/SMC	
		Bumper Bars	PP/EPDM	
		Radiator Grille	ABS	
		Side Protector Mouldings	PVC	
<b><i>Mercedes Benz</i></b>	AMG 2 to 5 Series 5 Series	Front Spoiler	PUR	
		F & R Bumper Bars	PC/PBT(Xenoy)	
		Front and Rear Apron	PUR (RIM)	
	Model 201	Side Body Mouldings	PUR (RIM)	
		Radiator Grille	PP	
		Cover Below Headlights	PA	
		Bumper Strips	PP	
		Trim Panel Below Bumpers	PC	
		Mirror Housing	PBT	
		Trunk Lid Handle	PBT	
		Cover, Rear Fender,Left Side	PC	
		Vent prot trim, Right/Left	PA	
		Hub Caps	PA	
		Model LW126 Vito/Sprinter	Bumper & Lateral Panelling	PUR (RIM)
			F & R Bumper Bars	PP/EPDM
	Side Panels		PP	
	<b><i>Mitsubishi</i></b>	Cordia/Scorpion Lancer Lancer Turbo Magna	Mud Flaps	PUR (RIM)
			Front & Rear Bumpers	PP/EPDM
Front Bumper				
2000 on'		Bumper Bars	PP/EPDM	
		Dashboard Frame	PPE (Noryl)	
		F & R Bumper Bars	PP/TPR	
		Sports Body Kit	PUR (RIM)	
		Wheel Arch Moulds	ABS	
Starion		Front & Rear Bumpers		
		Rear Spoiler		
	Tailgate Garnish			
	Front Spoiler (ET only)	ABS		
<b><i>Nissan</i></b>	Pulsar Pulsar EXA	Wheel Trims (GX)	ABS	
		Front & Rear Bumper Facia	PUR(RIM)	
		Rear 1/4 Finisher	ABS	
	280 ZX 300 C	Air Drafter Vent	ABS	
		Front & Rear Spoiler Attachments	PUR(RIM)	
		Bumper Bar Facia	PUR(RIM)	
		Front & Rear Bumper Facia	PUR(RIM)	
		Back Door/Rear Panel Finisher	ABS	
		Air Drafter Vent	ABS	
	300 ZX	Radiator Grille	ABS	
		Front & Rear Bumper Facia	PUR(RIM)	
		Back Door/Rear Panel Finisher	PP	
	Radiator Grille	PP		

<b><u>Vehicle MFCT</u></b>	<b><u>Model</u></b>	<b><u>Part</u></b>	<b><u>Plastic</u></b>
<b><i>Nissan (cont.)</i></b>	300 ZX cont.	Head Lamp Retractable Covers Front & Rear Spoilers Door Mirror	FRP PUR(RIM) ABS
	UD Truck X-Trail	Side Cover Front Guards Bumpers	PPE/PA PA/PPE PP/EPDM
<b><i>Peugeot</i></b>	505	Bumper Bars	PUR (RIM)
	206	Bumper Bars	PP/PE (TPO)
	307	Bumper Bars Front Guards	PUR (RIM) PA/PPE
<b><i>Porsche</i></b>	924 Turbo	Front Bumper Spoiler	GRP/SMC
	928	Front & Rear Ends Hardtop/Sunroof	PUR(RIM) GRP/SMC
	944	Front & Rear Spoiler Bumpers	PUR(RIM) GRP/SMC
<b><i>Renault</i></b>	Fuego	Grille Bumpers	ABS GRP
	R25	Bumpers Grille Front Guards	PP/EPDM ABS PA/PPE
<b><i>Rover</i></b>	2000/2300/ 2600/3500	Front Spoiler Guard	PUR (RIM) PPO/PA
	Land Rover Range Rover	Wheel Arches Wheel Arch Trim	PUR (RIM) PUR (RIM)
<b><i>Saab</i></b>	99GL	Bumpers Radiator/Spoiler	PP/EPDM ABS
	900 Turbo	Front & Rear Bumpers & Spoiler Radiator Grille	PP/EPDM ABS
	9000	Bumper Bars	PUR (RIM)
<b><i>Subaru</i></b>	ALL MODELS	Bumpers Exterior Mirror Grille	PP/EPDM ABS ABS
<b><i>Suzuki</i></b>	Swift	Grille Bumper Bars	ABS PP
<b><i>Toyota</i></b>	Litace	Bumper Bars	PP
	Litace 4 x 4	Front Mud Guard Side Mud Guard Side No. 2 Mud Guard Rear Mud Guard	PP PP PP PP
	Hiace	Bumper Bars	PP/EPDM
	Hilux Surf / 4 Runner	Rear Canopy Wheel Arch Flares	GRP GRP
	Camry (Local)	Front Spoiler Rear Spoiler Radiator Grille Front Bumper Cover Bumpers	PP PUR (RIM) ABS PP/EPDM PP/EPDM
	Camry 92 on 2003	Bumpers Bumpers	PP/EPDM PP/PE (TPO)

<b><u>Vehicle MFCT</u></b>	<b><u>Model</u></b>	<b><u>Part</u></b>	<b><u>Plastic</u></b>
<b>Toyota (cont.)</b>	Camry (Imp)	Front & Rear Bumpers	PUR (RIM)
		Radiator Grille	ABS-AES
	Celica	Front & Rear Bumper	PUR (RIM)
		Radiator Grille	ABS
	Conquest 99	F & R Bumpers	PP/EPDM
	Corolla	Radiator Grille	ABS
		Mudguard	TPE
		Front & Rear Bumper Cover	PP
		Outside Moulding	PVC
	-93	F & R Bumpers	PP
	2000	F & R Bumpers	PP/EPDM
	Corona CS-S	Front & Rear Bumpers	PP/EPDM
	Corona CS-X	Front & Rear Bumpers	PUR (R.I.M.)
	Cressida	Bumpers	PP/EPDM
		Radiator Grille	ABS
		Front Spoiler	PP
		Front Bumper Cover - early	PUR (RIM)
		Front Bumper - late	PP/EPDM
	Crown	Bumpers	PUR (RIM)
		Radiator Grille	ABS
	Front & Rear Bumper Covers	PUR (RIM)	
	Mudguard	PUR (RIM)	
	Outside Moulding	PVC	
Echo	F & R Bumpers	PP/EPDM	
Land Cruiser	Rear Canopy	GRP	
	Wheel Flares (early)	FRP	
	F & R Bumpers	PP/EPDM	
	Wheel Arch Flares (late)	PP/EPDM	
Prado	F & R Bumpers	PP/EPDM	
	Tarago & Estima	F & R Bumper Bars	PP/EPDM
		Side Panel Trims	PP/EPDM
<b>Holden</b>	Astra	Bumper Bar Facias	PP/EPDM
		Side Moulding Strips	PVC
		Rear Finisher	ABS
		Wheel Covers	PC
		Radiator Grille	ABS/PC-ET
		Front Spoiler	ABS (ET only)
		Rear Spoiler	PUR (ET only)
		Wheel Trims GX	ABS
	Barina early	Grille	ABS
		Front & Rear Bumpers & Side Mouldings	PC
		Grille	Acrylic
	Barina 1997	F & R Bumper Bars	PP/PE
		Body Kit	GRP
	Camira	Front Spoiler & Bumper	PP/EPDM
		Body Side Moulding	ABS
		Grille	ABS
	Commodore & Statesman		
	VK	Bumper Bars	PC
	VL	Bumper Bars	PC/PBT
		Body Side Moulding	PC
VN - VY	F & R Bumpers	PP/TPR	
VP - HSV	F & R Bumper	GRP	
VP-VY - HSV	F & R Bumper	PUR	

<b><u>Vehicle MFCT</u></b>	<b><u>Model</u></b>	<b><u>Part</u></b>	<b><u>Plastic</u></b>
<b>Holden(cont.)</b>	Gemini early	Bumpers	PP
	late	Front & Rear Bumpers	PP/EPDM
	Vectra	F & R Bumper Bars	PP/EPDM
<b>Honda</b>	Civic 2000	Bumpers	PP/EPDM
	CRX	Front/Rear Bumpers & Skirts	PUR (RIM)
	CRV 2000	Bumpers	PP
	Accord 2004	Fron & Rear Bumper Bars	PP/EPDM
<b>Hyundai</b>	Excel	Grill	TPO
		Bumper Bars	ABS
		Boot Garnish	PPO
	Lantra	Rear Spoilet	ASA
		Side Mirror	ASA
		F & R Bumpers	TPO
	Sonata	Tailgate Garnish	ABS
		Side Mirror	ABS
		F & R Bumpers	PC/PBT
	<b>Iveco</b>	Grandeur	Boot Finisher
Side Mirror			ASA
F & R Bumpers			PP/TPR
Bumper Bars			PP/EPDM
<b>Jaguar/Daimler</b>	XJS Series 111 Saloon XJ6	Side Panels	PP
		Bumper Bars	EPDM
		Front & Rear Bumper Cladding	EPDM
		Head Lamp Surround	ABS
<b>Jeep</b>	Cherokee	Boot Lid Lower Mouldings	ABS
		F & R Bumpers	PP/EPDM
	Wrangler	Wheel Arch Flares	PP/EPDM
<b>Nissan</b>	Skyline HR32	F & R Bumper Bar	PP/EPDM
		Grill	ABS
	Skyline HR33	F & R Bumper Bar	PP/EPDM
		Grill	ABS
	Skyline (Imp)	Front & Rear Bumper Facia	PP
		Back Door/Rear Panel Finisher	ABS
<b>Nissan</b>	Exa	Radiator Grille	ABS
		Headlamp Cover Retractable	GRP
		Bumper Bars	PUR (RIM)
		Fuel Filler Lid	PA
		Rear Hatch Hinge Cover	PA
		Rear Spoiler	SMC/GRP
		Rear Finisher	PA
<b>Nissan</b>	Bluebird	Bumper Bars	PP/EPDM
		Radiator Grille	ABS
		Front Spoiler (TRX only)	ABS
		Rear Spoiler (TRX only)	PUR (RIM)
		Rear Panel Finisher	ABS
		Wheel Trims (GL)	PC
		(GXE)	PC/ABS
<b>Nissan</b>	Silvia/200SX & 180SX Gazelle	F & R Bumper Bars	PUR
		Grill	ABS
		Bumper Bar Facias	PUR (RIM)
		Rear 1/4 Finisher	ABS

<b><u>Vehicle MFCT</u></b>	<b><u>Model</u></b>	<b><u>Part</u></b>	<b><u>Plastic</u></b>
<b><i>Nissan (cont.)</i></b>	Gazelle (cont.)	Back Door/Rear Panel Finisher	ABS
		Radiator Grille	ABS
	Maxima	Bumpers	PUR (RIM)
	Navara	Bumpers	PP/EPDM
		Front Guards	PA/PPE
	Pintarra/Skyline	Bumper Facias	PP/EPDM
		* Side Body Moulding Strips	PVC
		Rear Finisher	ABS
		Rear Sight Shield	PA (Mineral Filled)
		Wheel Trims	PC
		Radiator Grille	ABS/PC
		Front Spoiler (Silhouette only)	ABS
		Rear Spoiler (Silhouette only)	PUR(RIM)
	Prairie	Front & Rear Bumper Facias	PUR(RIM)
		Radiator Grille	ABS
Pulsar (Astra) to N16	Bumper Bar Facias	PP/EPDM	
	Side Moulding Strips	PVC	
	Rear Finisher	ABS	
	Wheel Covers	PC	
	Radiator Grille	ABS/PC-ET	
	* Rear Spoiler(ET only)	PUR(RIM)	
X-Trail	Bumper Bars	PP/EPDM	
	Front Guards	PA/PPE	

**\* THESE  
ITEMS NOT  
PAINTED O.E.**



<b>Toyota</b>	Seca	Bumper Bar	PUR (RIM)				
	Soarer	F & R Bumper Bars	PUR				
	Sprinter	Bumpers	PP/EPDM				
	Supra	Front Nose Section	PUR				
		Rear Spoiler	SMC				
		Radiator Grille	ABS				
		Front Spoiler Cover	PUR (RIM)				
		Front Bumper Cover	PUR (RIM)				
		Side Body Kit Panels	PPO				
	Tercel	Bumpers	PP/EPDM				
		Front & Rear Bumper Cover	PUR (RIM)				
		Front Bumper - some models	PP/EPDM				
		Mud Guard	EPDM				
		Outside Moulding	PP				
<b>Triumph</b>	TR7	Front Bumper	PC				
		Rear Bumper	PA				
<b>Volvo</b>	240	Bumper Cover	PP/EPDM				
		Front Spoiler	PP/EPDM				
		Grille	ABS				
	242/244/245	Side Body Mouldings	PVC				
		Bumper Bars	PP/EPDM				
	262/264/265	Front Spoiler	PUR (RIM)				
		Bumper Bars	PP/EPDM				
	343/345/480 360	Front Spoiler	PUR (RIM)				
		Bumper Bars & Spoiler	PUR (RIM)				
	740/760	Bumper Cover	PC				
		Grille	ABS				
Bumper Cover & Spoiler		PP/EPDM					
200/700/800 Series	Grille	ABS					
	Petrol Filler Cap	PA					
	Bumper Bars & Spoiler	PP/EPDM					
	Door Mirror & Rear Spoiler	PPO					
<b>Vehicle MFCT</b>	<b>Model</b>	<b>Part</b>	<b>Plastic</b>				
				<b>Vovlo (cont.)</b>	Series (cont.) 300 Series	Grille	ABS
						Rear Spoiler	PUR
						Door Mirror	ABS
				440/460	Bumper Bars	PP/EPDM	
					Bumper Bars	PP/EPDM	
					Door Mirror & Trim Strip	ABS	
				80 Series	Rear Spoiler	PUR	
					Bumpers	PP/EPDM	
				<b>VW/Audi/Golf/Passat</b>		Bumper Bars	PP/EPDM
Front Spoiler & Wheel Arches	PP/EPDM						
Grille	ABS						
<b>Beetle</b>	2000 on	F & R Bumper Bars	PUR				
		Front Gurds	PUR				
<b>VW Polo</b>		F & R Bumper Bars	PP/EPDM/PE				