



















Welding Rod Reference Chart

Typical Applications	Description/How to Identify	Plastic Symbol	Welding Rod Profiles
Bumper covers, headlight housings, inner fender liners, splash shields, fan shrouds, gas tanks, underhood parts, interior parts, snow-mobile cowl	Usually black, sometimes gray; semi-flexible. 98% of late-model bumper covers are made of PP. Slightly waxy appearance.	PP, TPO, TEO, PP/EPDM, PP + EP, TSOP (polypropylene)	 R02-01 1/8" dia (PP) 3 mm
			 R02-02 3/16" dia (PP) 4.7 mm
			 R02-03 7/16" x 1/16" (PP) 11 x 1.6 mm
			 R02-04 3/8" x 1/16" (PP) 9.5 x 1.6 mm
			 R02-05 5/8" x 1/16" (PP) 15.8 x 1.6 mm
			 R02-06 1/2" x 3/32" (PP) 12.7 x 2.4 mm
			 R02-07 13/64" x 1/16" (PP) 5.2 x 1.6 mm
			 R05-01 1/8" dia (TPO) 3 mm
			 R05-04 3/8" x 1/16" (TPO) 9.5 x 1.6 mm
			 R05-05 5/8" x 1/16" (TPO) 15.8 x 1.6 mm
Windshield washer bottles, radiator overflow bottles, ATV fenders, RV water storage tanks, gas tanks, kayaks, canoes, trash cans	Usually translucent white (natural), but often molded in color. Waxy in appearance, semi-flexible. Never painted.	PE, LDPE, HDPE (polyethylene)	 R04-01 1/8" dia (LDPE) 3 mm
			 R04-02 3/16" dia (LDPE) 4.7 mm
			 R04-04 3/8" x 1/16" (LDPE) 9.5 x 1.6 mm
			 R12-01 1/8" dia (HDPE) 3 mm
			 R12-04 3/8" x 1/16" (HDPE) 9.5 x 1.6 mm
			 R12-05 5/8" x 1/16" (HDPE) 15.8 x 1.6 mm
Grilles, instrument panels, consoles, armrest supports, street bike fairings, RV body panels	Rigid, usually shiny in appearance if smooth. May be molded in any color, but usually white or black.	ABS	 R03-01 1/8" dia 3 mm
			 R03-04 3/8" x 1/16" 9.5 x 1.6 mm



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Typical Applications	Description / How to Identify	Plastic Symbol	Welding Rod Profiles
Radiator tanks, oil pans, valve covers, exterior trim parts, mirrors, fenders (Saturn, VW)	Rigid, usually black, slightly waxy appearance, slippery	PA (nylon)	● R06-01 1/8" dia 3 mm
Bumper covers (old Ford, some M-B), door skins (Saturn), street bike fairings, instrument panels	Rigid, usually black or dark color, bumpers usually have rebar molded with fascia	PC, PC + ABS, PC + PBT (polycarbonate)	● R07-01 1/8" dia 3 mm
Flexible bumper covers, filler panels, rocker panel covers, snowmobile cowls	Usually flexible, usually yellow in color (but can be gray), bubbles and smokes when melted	PUR, RIM, RRIM (polyurethane)	● R01-01 1/8" dia 3 mm <i>(NOTE: This is a Thermoset plastic and CANNOT be welded with nitrogen/hot air. Must be repaired with airless plastic welder)</i>
Pipes, hard plastics, usually not used on vehicles	Hard and shiny	PVC	● R09-01 1/8" dia 3 mm
Hard plastic parts	Hard and shiny, may be molded in any color.	PET	● R13-01 1/8" dia 3 mm
Hard plastic parts, taillight housings	Hard and shiny, may be molded in any color.	ASA	● R14-01 1/8" dia 3 mm
Fenders (VW, Saturn), body panels	Fairly flexible, off-white, dull appearance on backside	PA/PPE (GTX)	● R15-01 1/8" dia 3 mm

Note: All welding rods sold by Urethane Supply are sold in 12" (300 mm) long sticks except for the R01 urethane and R06 nylon. The R01 and R06 are sold in continuous rolls only.