









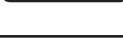










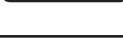










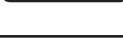

























































Typical Applications	Description / How to Identify	Plastic Symbol	Welding Rod Profiles & Part Numbers	Colors																																	
<p>Bumper covers, headlight housings, inner fender liners, splash shields, fan shrouds, gas tanks, underhood parts, interior parts, snowmobile cowls.</p> <p>Glass fiber-reinforced PP parts: Radiator supports, underhood plastics, UTV bodies, Sea Doo hulls</p>	<p>Usually black, sometimes gray; semi-flexible. 98% of late-model bumper covers are made of PP. Slightly waxy appearance.</p> <p>Glass fiber-reinforced PP parts: Rigid, usually black with dull, fibrous surface appearance</p>	<p>PP, TPO, TEO, PP/EPDM, PP + EP, TSOP (polypropylene)</p> <p>PP+GF (glass-reinforced PP)</p>	<table border="1"> <tr> <td></td> <td>R02-01 (PP)</td> <td>1/8" dia 3 mm</td> </tr> <tr> <td></td> <td>R02-02 (PP)</td> <td>3/16" dia 4.7 mm</td> </tr> <tr> <td></td> <td>R02-03 (PP)</td> <td>3/8" x 0.05" 9.5 x 1.2 mm</td> </tr> <tr> <td></td> <td>R02-04 (PP)</td> <td>3/8" x 1/16" 9.5 x 1.6 mm</td> </tr> <tr> <td></td> <td>R02-05 (PP)</td> <td>5/8" x 1/16" 15.8 x 1.6 mm</td> </tr> <tr> <td></td> <td>R02-06 (PP)</td> <td>1/2" x 3/32" 12.7 x 2.4 mm</td> </tr> <tr> <td></td> <td>R02-07 (PP)</td> <td>13/64" x 1/16" 5.2 x 1.6 mm</td> </tr> <tr> <td></td> <td>R02-08 (PP)</td> <td>1/4" x 1/16" 6 x 1.6 mm</td> </tr> <tr> <td></td> <td>R18-02 (PP+GF15)</td> <td>3/16" dia 4.7 mm</td> </tr> <tr> <td></td> <td>R18-04 (PP+GF15)</td> <td>3/8" x 1/16" 9.5 x 1.6 mm</td> </tr> <tr> <td></td> <td>R18-05 (PP+GF15)</td> <td>5/8" x 1/16" 15.8 x 1.6 mm</td> </tr> </table>		R02-01 (PP)	1/8" dia 3 mm		R02-02 (PP)	3/16" dia 4.7 mm		R02-03 (PP)	3/8" x 0.05" 9.5 x 1.2 mm		R02-04 (PP)	3/8" x 1/16" 9.5 x 1.6 mm		R02-05 (PP)	5/8" x 1/16" 15.8 x 1.6 mm		R02-06 (PP)	1/2" x 3/32" 12.7 x 2.4 mm		R02-07 (PP)	13/64" x 1/16" 5.2 x 1.6 mm		R02-08 (PP)	1/4" x 1/16" 6 x 1.6 mm		R18-02 (PP+GF15)	3/16" dia 4.7 mm		R18-04 (PP+GF15)	3/8" x 1/16" 9.5 x 1.6 mm		R18-05 (PP+GF15)	5/8" x 1/16" 15.8 x 1.6 mm	<p>Natural Black Red Orange Yellow Green Blue Tan Gray (R05)</p> <p>R18 PP+GF15 is black with a rough surface</p> <p>(not all colors available in all profiles; see latest price list for availability)</p>
	R02-01 (PP)	1/8" dia 3 mm																																			
	R02-02 (PP)	3/16" dia 4.7 mm																																			
	R02-03 (PP)	3/8" x 0.05" 9.5 x 1.2 mm																																			
	R02-04 (PP)	3/8" x 1/16" 9.5 x 1.6 mm																																			
	R02-05 (PP)	5/8" x 1/16" 15.8 x 1.6 mm																																			
	R02-06 (PP)	1/2" x 3/32" 12.7 x 2.4 mm																																			
	R02-07 (PP)	13/64" x 1/16" 5.2 x 1.6 mm																																			
	R02-08 (PP)	1/4" x 1/16" 6 x 1.6 mm																																			
	R18-02 (PP+GF15)	3/16" dia 4.7 mm																																			
	R18-04 (PP+GF15)	3/8" x 1/16" 9.5 x 1.6 mm																																			
	R18-05 (PP+GF15)	5/8" x 1/16" 15.8 x 1.6 mm																																			
<p>Grilles, instrument panels, consoles, armrest supports, street bike fairings, RV body panels and storage tanks</p>	<p>Rigid, usually shiny in appearance if smooth. May be molded in any color, but usually white or black.</p>	<p>ABS</p>	<table border="1"> <tr> <td></td> <td>R03-01</td> <td>1/8" dia 3 mm</td> </tr> <tr> <td></td> <td>R03-04</td> <td>3/8" x 1/16" 9.5 x 1.6 mm</td> </tr> </table>		R03-01	1/8" dia 3 mm		R03-04	3/8" x 1/16" 9.5 x 1.6 mm	<p>White Black</p>																											
	R03-01	1/8" dia 3 mm																																			
	R03-04	3/8" x 1/16" 9.5 x 1.6 mm																																			
<p>Windshield washer bottles, radiator overflow bottles, inner fender liners, ATV fenders, RV water storage tanks, gas tanks, kayaks, canoes, trash cans</p> <p>Glass fiber-reinforced HDPE: Agricultural plastics, shipping crates, pallets</p>	<p>Usually translucent white (natural), but often molded in color. Waxy in appearance, semi-flexible. Never painted.</p> <p>Glass fiber-reinforced HDPE: Rigid, usually natural but may be any color, dull, fibrous surface appearance</p>	<p>PE, LDPE, HDPE (polyethylene)</p> <p>HDPE+GF (glass-reinforced HDPE)</p>	<table border="1"> <tr> <td></td> <td>R04-01 (LDPE)</td> <td>1/8" dia 3 mm</td> </tr> <tr> <td></td> <td>R04-02 (LDPE)</td> <td>3/16" dia 4.7 mm</td> </tr> <tr> <td></td> <td>R04-04 (LDPE)</td> <td>3/8" x 1/16" 9.5 x 1.6 mm</td> </tr> <tr> <td></td> <td>R12-01 (HDPE)</td> <td>1/8" dia 3 mm</td> </tr> <tr> <td></td> <td>R12-04 (HDPE)</td> <td>3/8" x 1/16" 9.5 x 1.6 mm</td> </tr> <tr> <td></td> <td>R12-05 (HDPE)</td> <td>5/8" x 1/16" 15.8 x 1.6 mm</td> </tr> <tr> <td></td> <td>R19-04 (HDPE+GF15)</td> <td>3/8" x 1/16" 9.5 x 1.6 mm</td> </tr> <tr> <td></td> <td>R19-08 (HDPE+GF15)</td> <td>1/4" x 1/16" 6 x 1.6 mm</td> </tr> </table>		R04-01 (LDPE)	1/8" dia 3 mm		R04-02 (LDPE)	3/16" dia 4.7 mm		R04-04 (LDPE)	3/8" x 1/16" 9.5 x 1.6 mm		R12-01 (HDPE)	1/8" dia 3 mm		R12-04 (HDPE)	3/8" x 1/16" 9.5 x 1.6 mm		R12-05 (HDPE)	5/8" x 1/16" 15.8 x 1.6 mm		R19-04 (HDPE+GF15)	3/8" x 1/16" 9.5 x 1.6 mm		R19-08 (HDPE+GF15)	1/4" x 1/16" 6 x 1.6 mm	<p>Natural Black Red Orange Yellow Green Blue Tan</p> <p>R19 HDPE+GF15 is natural in color with a rough surface</p> <p>(not all colors available in all profiles)</p>									
	R04-01 (LDPE)	1/8" dia 3 mm																																			
	R04-02 (LDPE)	3/16" dia 4.7 mm																																			
	R04-04 (LDPE)	3/8" x 1/16" 9.5 x 1.6 mm																																			
	R12-01 (HDPE)	1/8" dia 3 mm																																			
	R12-04 (HDPE)	3/8" x 1/16" 9.5 x 1.6 mm																																			
	R12-05 (HDPE)	5/8" x 1/16" 15.8 x 1.6 mm																																			
	R19-04 (HDPE+GF15)	3/8" x 1/16" 9.5 x 1.6 mm																																			
	R19-08 (HDPE+GF15)	1/4" x 1/16" 6 x 1.6 mm																																			
<p>Bumper covers, headlight housings, inner fender liners. Esp. light gray headlight housings.</p>	<p>Light gray, sometimes black. Same as PP but has a bit of synthetic rubber for flexibility.</p>	<p>PP, TPO, TEO, PP/EPDM, PP + EP (Thermoplastic olefin)</p>	<table border="1"> <tr> <td></td> <td>R05-01 (TPO)</td> <td>1/8" dia 3 mm</td> </tr> <tr> <td></td> <td>R05-04 (TPO)</td> <td>3/16" dia 4.7 mm</td> </tr> <tr> <td></td> <td>R05-05 (TPO)</td> <td>3/8" x 0.05" 9.5 x 1.2 mm</td> </tr> </table>		R05-01 (TPO)	1/8" dia 3 mm		R05-04 (TPO)	3/16" dia 4.7 mm		R05-05 (TPO)	3/8" x 0.05" 9.5 x 1.2 mm	<p>Light Gray</p>																								
	R05-01 (TPO)	1/8" dia 3 mm																																			
	R05-04 (TPO)	3/16" dia 4.7 mm																																			
	R05-05 (TPO)	3/8" x 0.05" 9.5 x 1.2 mm																																			

Typical Applications	Description / How to Identify	Plastic Symbol	Welding Rod Profiles & Part Numbers			Colors
Radiator tanks, oil pans, valve covers, exterior trim parts, mirrors, fenders	Radiator tanks, oil pans, valve covers, exterior trim parts, mirrors, fenders	PA (nylon)  PA+GF (glass-reinforced nylon)	 R06-01	1/8" dia 3 mm	Natural Black  R21 PA+GF15 is black with a rough surface	
			 R06-04	3/8" x 1/16" 9.5 x 1.6 mm		
			 R21-04 (PA+GF15)	3/8" x 1/16" 9.5 x 1.6 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. Trade name: Lexan	PC, PC + ABS, PC + PBT (polycarbonate & blends)	 R07-01	1/8" dia 3 mm	Natural	
			 R07-04	3/8" x 1/16" 9.5 x 1.6 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	Natural	
			<i>(NOTE: This is a Thermoset plastic and CANNOT be welded with nitrogen/hot air. Must be repaired with airless plastic welder)</i>			
Bumpers, exterior body parts	Semi-flexible	PPE+PS	 R08-01	1/8" dia 3 mm	Black	
Pipes, hard plastics, usually not used on vehicles	Hard, usually dull in appearance	PVC	 R09-01	1/8" dia 3 mm	Gray	
Hard plastic parts	Hard and shiny, may be molded in any color.	PBT	 R11-01	1/8" dia 3 mm	Black	
Hard plastic parts	Hard and shiny, may be molded in any color.	PET	 R13-01	1/8" dia 3 mm	Natural	
Hard plastic parts, taillight housings	Hard and shiny, may be molded in any color.	ASA	 R14-01	1/8" dia 3 mm	White	
Fenders, body panels	Fairly flexible, usually off-white, dull appearance on backside	PA + PPE (GTX)	 R15-01	1/8" dia 3 mm	Black	
			 R15-04	3/8" x 1/16" 9.5 x 1.6 mm		
Hard plastic parts	Hard and shiny, may be molded in any color	POM	 R16-01	1/8" dia 3 mm	Black	
Aircraft interior parts (trade names: Kydex, Boltaron)	Flame resistant material, usually thermoformed sheet	Acrylic/PVC	 R17-04	3/8" x 1/16" 9.5 x 1.6 mm	Black	
Hard plastic parts	Rigid exterior parts, Saturn door panels	PC+ABS	 R20-01	1/8" dia 3 mm	White	

Note: All welding rods sold by Polyvance are sold in 12" (300 mm) long sticks except for the R01 urethane. The R01-01 urethane is sold in continuous rolls only.