



With a shot capacity of 2,000 grams Ps, the precision LV375 is available with 4 tip styles and 11 lengths, making it ideally suited for most small-to-medium applications.

Precision LV375

PRECISION LV BUSHINGS

Maximum Shot Weight (Grams)

Sprue Gate	Gating on runners
Pp, Ps	2000
LDPe, PVC-p, SAN	1500
ABS, HDPe, Pa	1000
PET, POM	750
PBT, Pc, PMMA, PPO	500

Ring Gate	Gating on parts with Witness Ring
Pp, Ps	2000
LDPe, PVC-p, SAN	1500
ABS, HDPe, Pa	1000
PET, POM	750
PBT, Pc, PMMA, PPO	500

Collar Gate	Gating on parts without Witness Ring
Pp, Ps	2000
LDPe, PVC-p, SAN	1500
ABS, HDPe, Pa	1000
PET, POM	750
PBT, Pc, PMMA, PPO	500

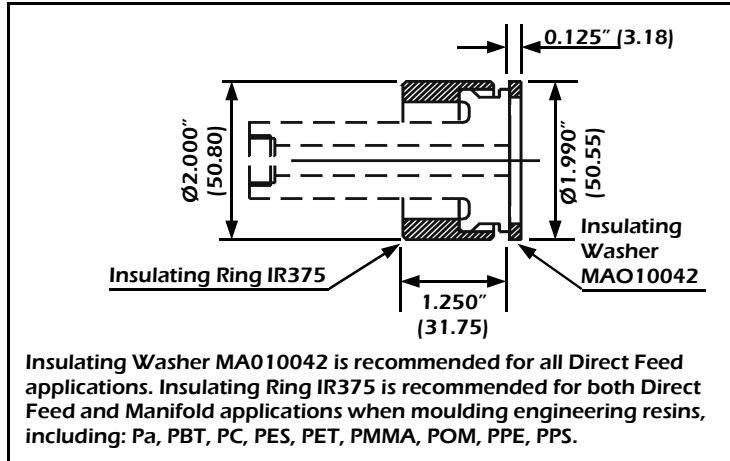
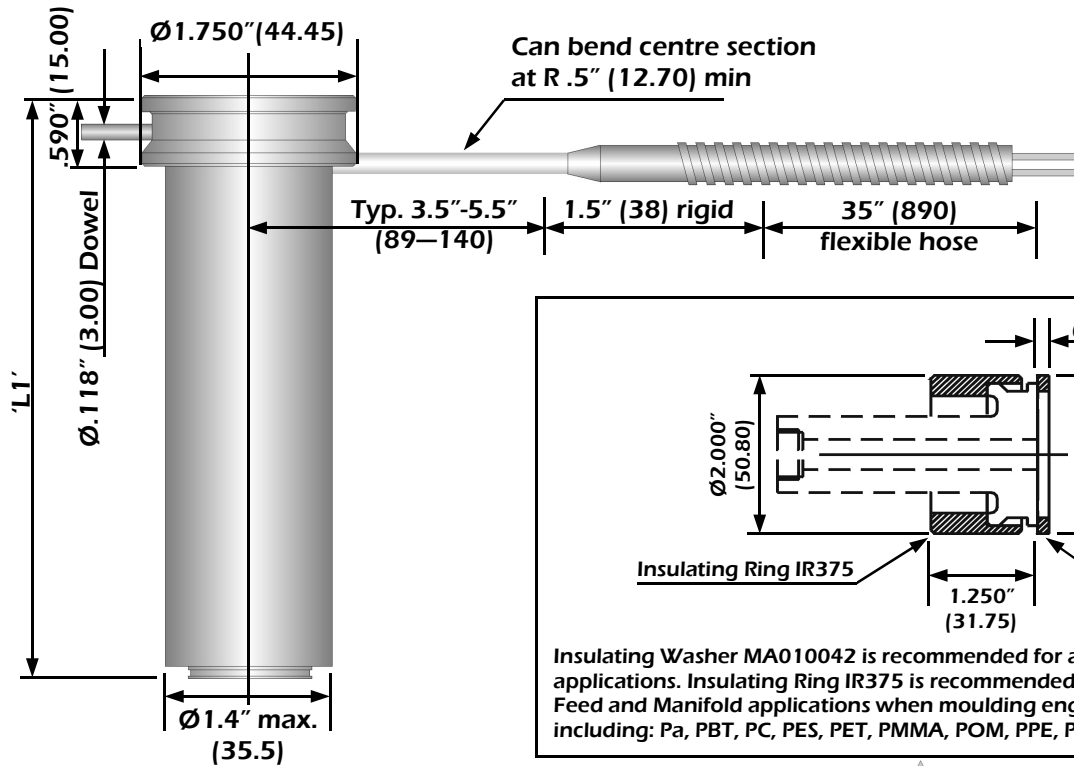
Note: Maximum shot weights may be reduced, depending on polymer grade & component dimensions.

Precision LV Series Technical Specifications

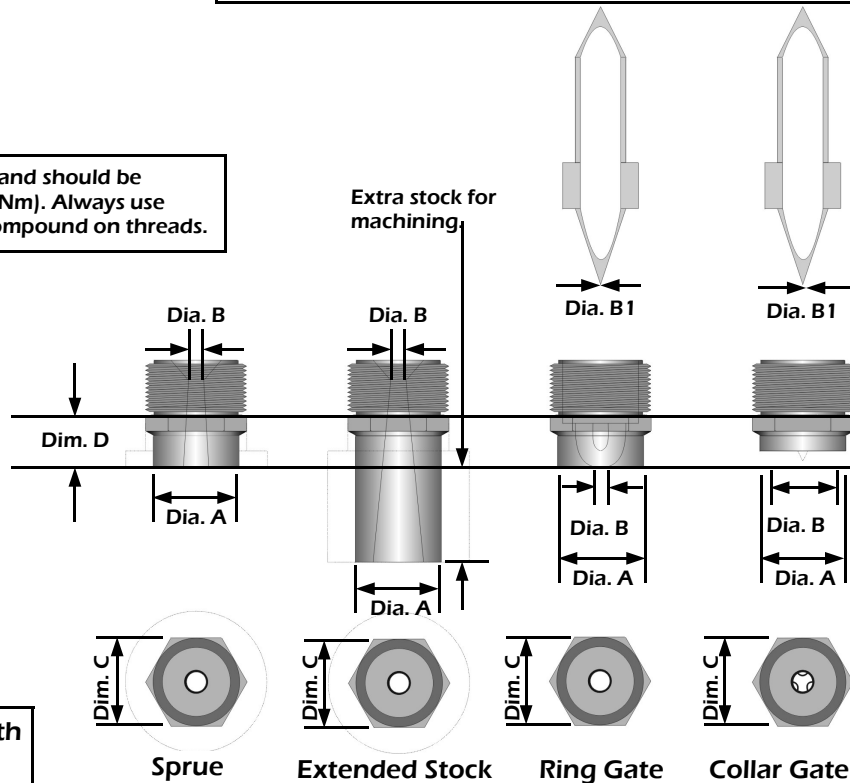
PRECISION LV BUSHINGS

Precision LV375

Body Dimensions—Excluding Tip
Dimensions in Inches (mm)



Tips have 5/8" -20NS threads, and should be torqued down to 35 ft.lbs (48 Nm). Always use high temperature anti-seize compound on threads.



Overall Bush Length
 $L' = L1 + D$

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Precision LV Series Technical Specifications

Precision LV375—Ordering Chart

Body & Heater Part Numbers	Body Assembly	Len. 'L1'	Spare Heater	Watts	Optional Insulating Ring Insulating washer	IR375 MA010042
	PLV375-02125	2.125" (53.98)	LPH25035F	460		
	PLV375-02625	2.625" (66.68)	LPH25050F	460		
	PLV375-03125	3.125" (79.38)	LPH25065G	610		
	PLV375-03625	3.625" (92.08)	LPH25080G	610		
	PLV375-04125	4.125" (104.78)	LPH25090G	610		
	PLV375-04625	4.625" (117.48)	LPH25105H	690		
	PLV375-05625	5.625" (142.88)	LPH25130H	690		
	PLV375-06625	6.625" (168.28)	LPH25155H	690		
	PLV375-07625	7.625" (193.68)	LPH25180K	750		
	PLV375-08625	8.625" (219.08)	LPH25205K	750		
	PLV375-09625	9.625" (244.48)	LPH25230L	1000		
	PLV375-10625	10.625" (269.88)	LPH25255L	1000		
	PLV375-11625	11.625" (295.28)	LPH25280L	1000		
	PLV375-12625	12.625" (320.68)	LPH25305L	1000		
PLV375-13625	13.625" (346.08)	LPH25330L	1000			
PLV375-14625	14.625" (371.48)	LPH25355L	1000			

Please note that the PLV375 bushings are now only available with PLV375 Plus tips. The table below and the details it contains are for spares reference only.

Tip Part Numbers	Gate Style	Tip Alloy	Part Number	Dia. 'A'	Dia. 'B'	Dim. 'C'	Dim. 'D'
	Sprue	Standard	TP370100	.500" (12.70)	.125" (3.18)	.625" (15.88)	.375" (9.53)
		Standard	TP370101	.750" (19.05)	.125" (3.18)	.812" (20.62)	.375" (9.53)
	Extended	Standard	TP370102	1.000" (25.40)	.125" (3.18)	1.125" (28.58)	.375" (9.53)
		Standard	TP370200	.500" (12.70)	.125" (3.18)	.625" (15.88)	1.125" (28.58)
		Standard	TP370201	.750" (19.05)	.125" (3.18)	.812" (20.62)	1.125" (28.58)
	Ring Gate	Standard	TP370202	1.000" (25.40)	.125" (3.18)	1.125" (28.58)	1.125" (28.58)
		Standard	TP370300	.500" (12.70)	.081" (2.06)	.685" (17.40)	.375" (9.53)
		Standard	TP370301	.500" (12.70)	.100" (2.54)	.685" (17.40)	.375" (9.53)
		Standard	TP370302	.750" (19.05)	.081" (2.06)	.875" (22.22)	.375" (9.53)
	Collar Gate	Standard	TP370303	.750" (19.05)	.100" (2.54)	.875" (22.22)	.375" (9.53)
		Standard	TP370304	1.000" (25.40)	.081" (2.06)	1.125" (28.58)	.375" (9.53)
		Standard	TP370305	1.000" (25.40)	.100" (2.54)	1.125" (28.58)	.375" (9.53)
	Standard	TP370400	.500" (12.70)	.375" (9.53)	.625" (15.88)	.375" (9.53)	

LV375 Plus Tip Part Numbers	Gate Style	Tip Alloy	Part Number	Dia. 'A'	Dia. 'B' / 'B1'	Dim. 'C'	Dim. 'D'
	Sprue	Std/ Wear Resist	TP370110/111	.500" (12.70)	.125" (3.18)	.750" (19.05)	.500" (12.7)
	Extended	Std / Wear Resist	TP370210/211	.500" (12.70)	.125" (3.18)	.750" (19.05)	1.000" (25.4)
	Ring Gate	Std / Wear Resist	TP370410/413	.500" (12.70)	.065" (1.65)	.750" (19.05)	.500" (12.7)
		Std / Wear Resist	TP370411/414	.500" (12.70)	.080" (2.03)	.750" (19.05)	1.000" (25.4)
	Collar Gate	Std / Wear Resist	TP370412/415	.500" (12.70)	.100" (2.54)	.750" (19.05)	.500" (12.7)
		Std / Wear Resist	TP370416/419	.500" (12.70)	.065" (1.65)	.750" (19.05)	1.000" (25.4)
		Std / Wear Resist	TP370417/420	.500" (12.70)	.080" (2.03)	.750" (19.05)	.500" (12.7)
Std / Wear Resist	TP370418/421	.500" (12.70)	.100" (2.54)	.750" (19.05)	1.000" (25.4)		

Note: The tips on the LV375 Plus are .125" inches (3.18 mm) longer than standard LV375 tips.

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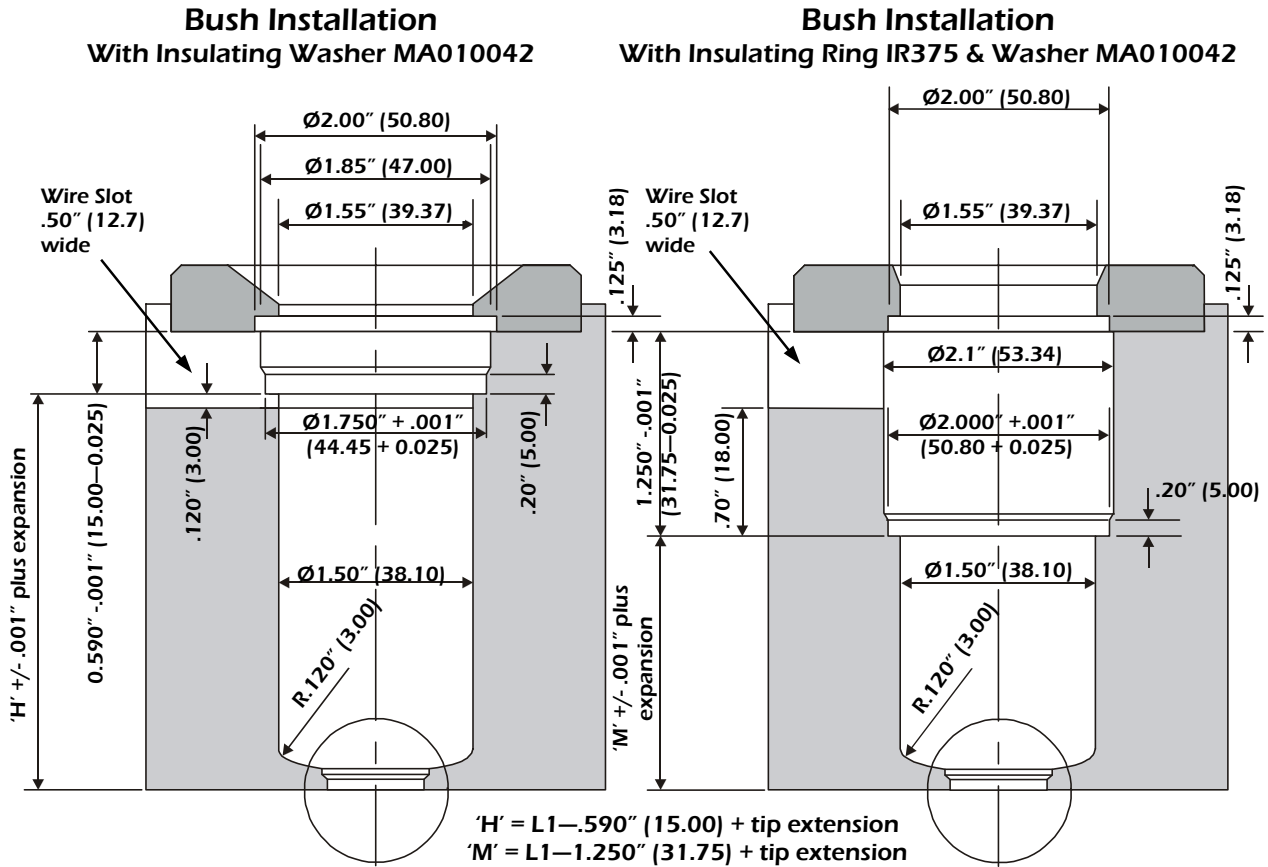
PRECISION LV BUSHINGS

Precision LV Series Technical Specifications

DIRECT FEED APPLICATIONS

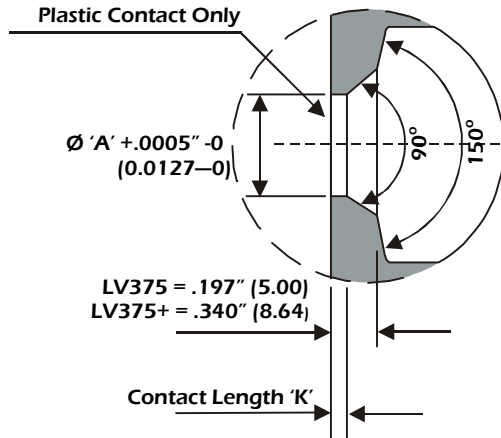
Precision LV375

Bore & Gate Dimensions (Inches)

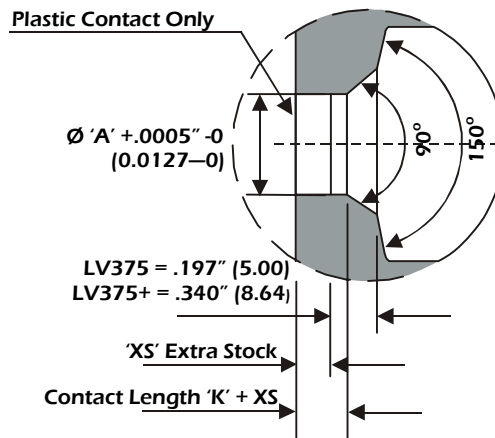


The thermal expansion of the bush relative to the mould is calculated by the formula:
'H' x 0.0000126 x (melt temp. °C - mould temp. °C), where height 'H' = L1 - 0.590" (15.00) + tip extension.

Standard Sprue & Ring Gate



Extended Sprue



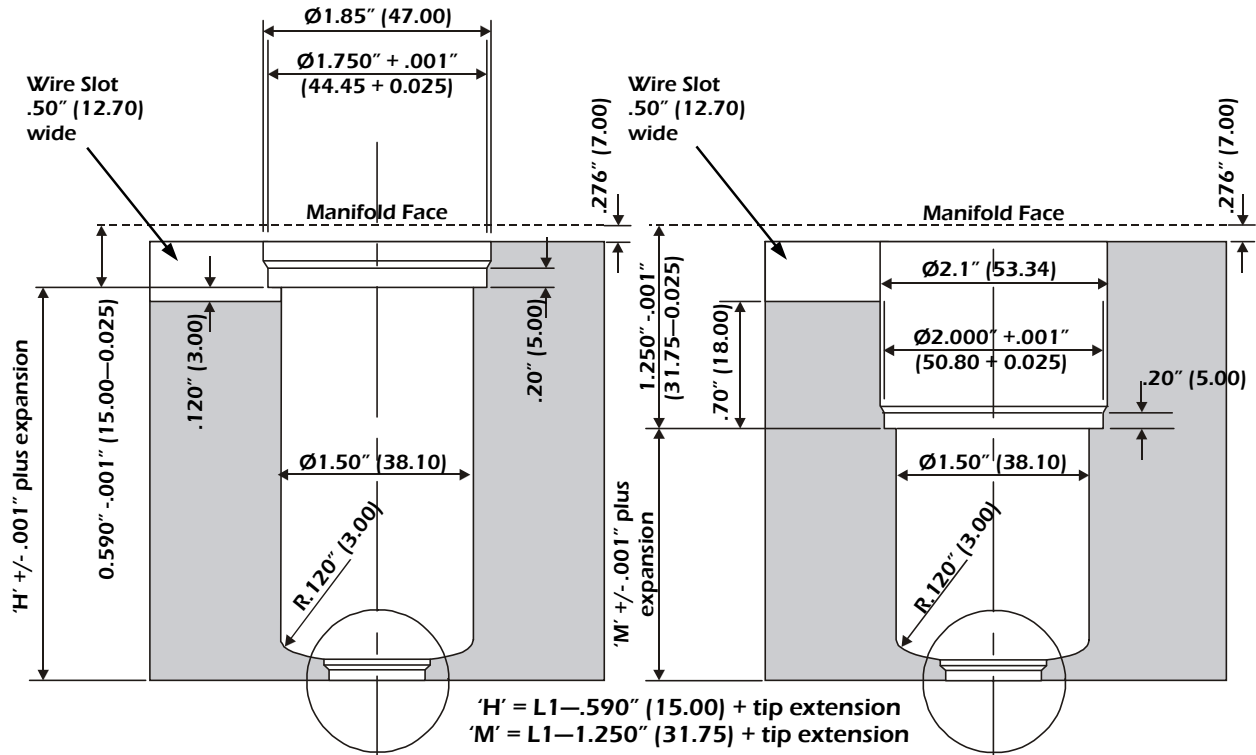
For Standard, Ring & Extended Sprue Gates
'K' = .060" - .100" (1.5 - 2.5) for Crystalline resins
'K' = .080" - .160" (2.0 - 4.0) for Amorphous resins
Increase 'K' as 'A' increases

Precision LV Series Technical Specifications

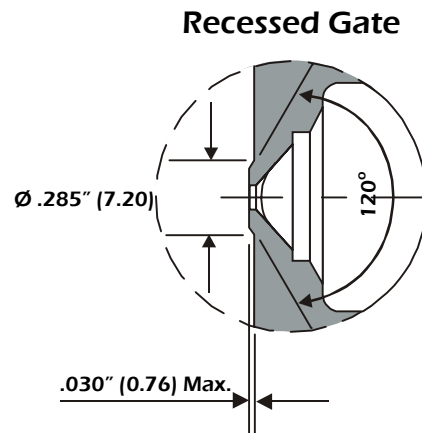
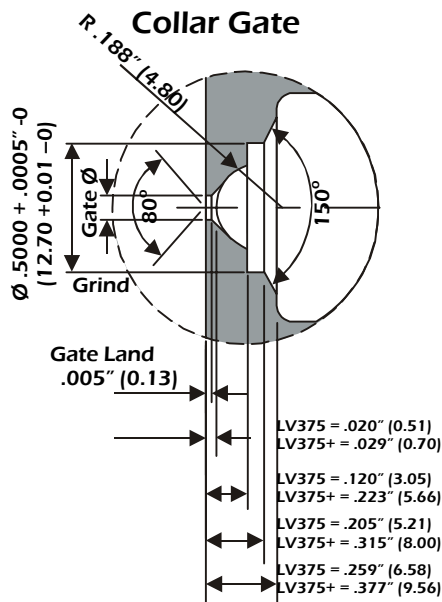
Precision LV375

Standard Bush Installation

Bush Installation With Insulating Ring IR375



The thermal expansion of the bush relative to the mould is calculated by the formula:
 'H' x 0.0000126 x (melt temp. °C - mould temp. °C), where height 'H' = L1 - 0.590" (15.00) + tip extension.



Precision LV Series Technical Specifications

PRECISION LV BUSHINGS

Precision LV375—Engineering Charts

375 & 375+ Series Resin Compatibility	Gating Options		Tip Alloy	Commodity Resin	Engineering Resin	Glass-Filled Resin	
	375 Series						
	Sprue		Standard	●	●	○	
	Extended Sprue		Standard	●	●	○	
	Ring Gate		Standard	●	●	○	
	Collar Gate		Standard	●	●	○	
	375+ Series						
	Sprue		Standard	●	●		
			Wear Resist	●	●	●	
	Extended Sprue		Standard	●	●		
		Wear Resist	●	●	●		
Ring Gate		Standard	●	●			
		Wear Resist	●	●	●		
Collar Gate		Standard	●	●			
		Wear Resist	●	●	●		

● = Recommended ○ = Possible

375 & 375+ Series Gate Diameters	Tip Type	Low Viscosity	Medium Viscosity	High Viscosity	
	Sprue				
	All	.125" - .250" (3.2–6.4 mm)	.125" - .250" (3.2–6.4 mm)	.125" - .250" (3.2–6.4 mm)	
	Spreader Needle				
	Ring Gate .005" Flat	.080" - .100" (2.0–2.5)	.080" - .100" (2.0–2.5)	.100" - .127" (2.5–3.2)	
	Collar Gate .005" Flat	.050" - .080" (1.2–2.0)	.080" - .100" (2.0–2.5)	.100" - .127" (2.5–3.2)	
	Ring Gate .065" Flat	.085" - .105" (2.2–2.7)	.105" - .127" (2.7–3.2)	.127" - .160" (3.2–4.0)	
	Collar Gate .065" Flat	.085" - .105" (2.2–2.7)	.105" - .127" (2.7–3.2)	.127" - .160" (3.2–4.0)	
	Ring Gate .080" Flat	.100" - .120" (2.5–3.0)	.120" - .140" (3.0–3.6)	.140" - .174" (3.6–4.4)	
	Collar Gate .080" Flat	.100" - .120" (2.5–3.0)	.120" - .140" (3.0–3.6)	.140" - .174" (3.6–4.4)	
Ring Gate .100" Flat	.120" - .140" (3.0–3.6)	.140" - .160" (3.6–4.0)	.160" - .194" (4.0–4.9)		
Collar Gate .100" Flat	.120" - .140" (3.0–3.6)	.140" - .160" (3.6–4.0)	.160" - .194" (4.0–4.9)		

Tips are supplied with the smallest gate diameter—customer to re-machine if necessary for larger shot weights.

High viscosity = melt flow 0.5–6

Medium viscosity = melt flow 7–16

Low viscosity = melt flow > 16

Shot Weights	Resin Type	Shot Weight (grams)
	Pp, Ps	2000
	LDPE, PVC-p, SAN	1500
	ABS, HDPE, Pa	1000
	PET, POM	750
	PBT, Pc, PMMA, PPO	500

These values are for reference purposes only. The values can be affected by the resin melt flow, part dimensions & wall thickness, mould & melt temperatures and the moulding conditions used.

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