PCS Hot Sprue Bushing Selection Guide

Resin Application Legend

- Good Resin Application
- Contact PCS for Application Recommendations
- Not Recommended for this Resin Application

Amorphous = A
Crystalline = C

Maximum Flow Capacities (Grams)

Nozzle	Tip	Recommended Gate Diameter Range				Gate Diameter		Resin Melt Flow Index (MFI)			Filled Resins Capabilities	Styrene Butediene	Poliuretane	Polyether Imide	Poly Vinyl Chloride	Styrene / acrylonitrile	Polystyrene	Polycarbonate	Polyphenylene Oxide-Styrene	Polyethylene	Polypropylene	Polyether-etherketone	Polyphenylene Sulfide	Polyethylene Terephthalate	Polybutylene Terephthalate	Polyamide	Thermal Plastic Elastomers	Poly Oxmethylene Polyacetal	Poly Methyl Methacrylate	Acrylonitril Butadiene Styrene	Thermo Plastic Olefin	Polycarbonate/Acrylonitrile Butadiene	Polyphenylene Ether / Polystyrene	Polysulfone	Liquid Crystal Polymer
		Minimum (mm)	Maximum (mm)	Minimum (inch)	Maximum (inch)	mm	inch	Low MFI .02 - 7	Med MFI 7 - 16	High MFI 16 +	Yes / No	SB	PUR	PEI	PVC/Flex	SAN	PS	PC	PPO	PE	PP	PEEK	PPS	PET	PBT	PA	TPE	POM	PMMA	ABS	TPO	PC/ABS	PPE/PS	PSU	LCP
								Grams				A	A	A	A	A	A	A	A	C	C	C	C	C	C	C	A	C	A	A	C	A	A	A	C
PCS Standard Mini Hot Sprue Bushing	Sprue Gate Tip	1.00	1.52	0.040	0.060	1.52	0.060	17	35	70	Yes																								
	Ring Gate Tip	1.00	1.52	0.040	0.060	1.52	0.060	8	15	35																									
	Point Gate Tip	0.50	1.52	0.025	0.060	1.52	0.060	8	15	35																									
PCS High Performance Mini Hot Sprue Bushing	Sprue Gate Tip	1.00	1.52	0.040	0.060	1.52	0.060	17	35	70																									
	Ring Gate Tip	1.00	1.52	0.040	0.060	1.52	0.060	8	15	35																									
	Point Gate Tip	0.50	1.52	0.025	0.060	1.52	0.060	8	15	35																									
PCS Standard Hot Sprue Bushing	Sprue Gate Tip	2.00	2.00	0.078	0.078	2.00	0.078	200	400	800																									
	Ring Gate Tip	2.00	2.00	0.078	0.078	2.00	0.078	52	105	210																									
Polimax 200 Series Standard Hot Sprue Bushing	Sprue Gate Tip	2.00	2.00	0.078	0.078	2.00	0.078	200	400	800																									
	Ring Gate Tip	1.50	2.00	0.059	0.078	2.00	0.078	52	105	210																									
	Point Gate Tip	1.00	2.60	0.039	0.102	2.60	0.102	52	105	210																									
Polimax 200 Series High Performance Hot Sprue Bushing	Sprue Gate Tip	2.00	2.00	0.078	0.078	2.00	0.078	200	400	800																									
	Ring Gate Tip	1.50	2.00	0.059	0.078	2.00	0.078	52	105	210																									
	Point Gate Tip	1.00	2.60	0.039	0.102	2.60	0.102	52	105	210																									
Polimax 500 Series Standard Hot Sprue Bushing	Sprue Gate Tip	3.20	3.20	0.126	0.126	3.20	0.126	300	700	1400																									
	Ring Gate Tip	2.00	2.50	0.078	0.098	2.50	0.098	210	490	980																									
	Point Gate Tip	1.00	3.00	0.039	0.118	3.00	0.118	210	490	980																									
Polimax 500 Series High Performance Hot Sprue Bushing	Sprue Gate Tip	3.20	3.20	0.126	0.126	3.20	0.126	300	700	1400																									
	Ring Gate Tip	2.00	2.50	0.078	0.098	2.50	0.098	210	490	980																									
	Point Gate Tip	1.00	3.00	0.039	0.118	3.00	0.118	210	490	980																									
Polimax 800 Series Standard Hot Sprue Bushing	Sprue Gate Tip	4.50	4.50	0.177	0.177	4.50	0.177	450	1000	2000																									
	Ring Gate Tip	2.50	3.00	0.098	0.118	3.00	0.118	315	700	1400																									
	Point Gate Tip	2.00	4.50	0.078	0.177	4.50	0.177	315	700	1400																									
Polimax 800 Series High Performance Hot Sprue Bushing	Sprue Gate Tip	4.50	4.50	0.177	0.177	4.50	0.177	450	1000	2000																									
	Ring Gate Tip	2.50	3.00	0.098	0.118	3.00	0.118	315	700	1400																									
	Point Gate Tip	2.00	4.50	0.078	0.177	4.50	0.177	315	700	1400																									
Polimax 1000 Series Standard Hot Sprue Bushing	Sprue Gate Tip	5.00	5.00	0.197	0.197	5.00	0.197	1000	1500	3000																									
	Ring Gate Tip	3.00	3.50	0.118	0.138	3.50	0.138	700	1050	2100																									
	Point Gate Tip	3.00	6.50	0.118	0.256	6.50	0.256	700	1050	2100																									
Polimax 1000 Series High Performance Hot Sprue Bushing	Sprue Gate Tip	5.00	5.00	0.197	0.197	5.00	0.197	1000	1500	3000																									
	Ring Gate Tip	3.00	3.50	0.118	0.138	3.50	0.138	700	1050	2100																									
	Point Gate Tip	3.00	6.50	0.118	0.256	6.50	0.256	700	1050	2100																									