

Precision Brand Plastic Shim Stock

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PRECISION BRAND Color Coded Shim is made from high quality plastic materials
 Great for all your plastic shim requirements
 Used for gaskets, special parts and various manufacturing applications
 Easy to cut
 Resists oil
 Minimal compression during use
 Thickness tolerances to industry standards
 Consistent performance
 Non-conductive to electricity with the exception of 77-644-105 (Due to Aluminium additive in coloring)
 Thickness indicated by shim color
 Eliminates need for micrometer, saves time and reduces error

Inch Plastic Sheets 5" x 20"

Code	Thickness Inch	Thickness Metric	Colour	Material	Pack Qty	Included in Assortment Pack	Weight Kilos
77-644-105	0.0005	0.013	Silver	Polyester	1	Yes	0.001
77-644-110	0.001	0.025	Amber	Polyester	1	Yes	0.002
77-644-115	0.0015	0.038	Purple	Polyester	1	Yes	0.003
77-644-120	0.002	0.051	Red	Polyester	1	Yes	0.005
77-644-125	0.003	0.076	Green	Polyester	1	Yes	0.007
77-644-130	0.004	0.102	Tan	Polyester	1	Yes	0.009
77-644-135	0.005	0.127	Blue	Polyester	1	Yes	0.011
77-644-140	0.0075	0.191	Matte	Vinyl	1	Yes	0.017
77-644-145	0.010	0.254	Brown	Vinyl	1	Yes	0.023
77-644-150	0.0125	0.318	Black	Vinyl	1	Yes	0.029
77-644-155	0.015	0.381	Pink	Vinyl	1	Yes	0.034
77-644-160	0.020	0.508	Yellow	Vinyl	1	Yes	0.045
77-644-165	0.025	0.635	White	Vinyl	1	Yes	0.057
77-644-170	0.030	0.762	Coral	Vinyl	1	Yes	0.068
77-644-175	0.040	1.016	Clear	Vinyl	1		0.087
77-644-180	0.050	1.270	Clear	Vinyl	1		0.109
77-644-185	0.060	1.524	Clear	Vinyl	1		0.131

Packed Weight and Dimensions

Code	Thickness Inch	Weight Kilos	W mm	H mm	L mm
77-644-105	0.0005	0.001	25	25	135
77-644-110	0.001	0.002	25	25	135
77-644-115	0.0015	0.003	25	25	135
77-644-120	0.002	0.005	25	25	135
77-644-125	0.003	0.007	25	25	135
77-644-130	0.004	0.009	25	25	135
77-644-135	0.005	0.011	25	25	135
77-644-140	0.0075	0.017	25	25	135
77-644-145	0.010	0.023	155	2	525
77-644-150	0.0125	0.029	155	3	525
77-644-155	0.015	0.034	155	3	525
77-644-160	0.020	0.045	155	3	525
77-644-165	0.025	0.057	155	4	525
77-644-170	0.030	0.068	155	4	525
77-644-175	0.040	0.087	155	4	525
77-644-180	0.050	0.109	155	4	525
77-644-185	0.060	0.131	155	5	525

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Plastic Shim Assortment Pack

Code	Range	Pack Qty	Weight Kilos
77-644-905	0.0005” – 0.030”	14	0.361

Packed Weight and Dimensions

Code	Weight Kilos	W mm	H mm	L mm
77-644-905	0.361	155	7	525

Typical Properties

Code	Thickness Inch	Tensile Strength PSI	Ultimate Elongation	Folding Endurance MIT /Cycles	Tear Strength Elmendorf	Moisture Absorption	Thickness Tolerance	Compression At 5,000 PSI
77-644-105	0.0005	30,000	90%	100,000	20 gm	0.08%	± 5%	1.0%
77-644-110	0.001	30,000	90%	100,000	20 gm	0.08%	± 5%	1.0%
77-644-115	0.0015	30,000	90%	100,000	20 gm	0.08%	± 5%	1.0%
77-644-120	0.002	30,000	90%	100,000	20 gm	0.08%	± 5%	1.0%
77-644-125	0.003	30,000	90%	100,000	20 gm	0.08%	± 5%	1.0%
77-644-130	0.004	30,000	90%	100,000	20 gm	0.08%	± 5%	1.0%
77-644-135	0.005	30,000	90%	100,000	20 gm	0.08%	± 5%	1.0%
77-644-140	0.0075	6,600	180%	37,000	-	0.15%	± 5%	0.7%
77-644-145	0.010	6,600	180%	37,000	-	0.15%	± 5%	0.7%
77-644-150	0.0125	6,600	180%	37,000	-	0.15%	± 5%	0.7%
77-644-155	0.015	6,600	180%	37,000	-	0.15%	± 5%	0.7%
77-644-160	0.020	6,600	180%	37,000	-	0.15%	± 5%	0.7%
77-644-165	0.025	6,600	180%	37,000	-	0.15%	± 5%	0.7%
77-644-170	0.030	6,600	180%	37,000	-	0.15%	± 5%	0.7%
77-644-175	0.040	14,000	180%	37,000	-	0.15%	± 5%	0.7%
77-644-180	0.050	14,000	180%	37,000	-	0.15%	± 5%	0.7%
77-644-185	0.060	14,000	180%	37,000	-	0.15%	± 5%	0.7%

Other Properties and Specifications

Code	Thickness Inch	Service Temperature	Meets Specification
77-644-105	0.0005	-90° F - 300°F	L-P-377
77-644-110	0.001	-90° F - 300°F	L-P-377
77-644-115	0.0015	-90° F - 300°F	L-P-377
77-644-120	0.002	-90° F - 300°F	L-P-377
77-644-125	0.003	-90° F - 300°F	L-P-377
77-644-130	0.004	-90° F - 300°F	L-P-377
77-644-135	0.005	-90° F - 300°F	L-P-377
77-644-140	0.0075	-10° F - 155° F	L-P-535
77-644-145	0.010	-10° F - 155° F	L-P-535
77-644-150	0.0125	-10° F - 155° F	L-P-535
77-644-155	0.015	-10° F - 155° F	L-P-535
77-644-160	0.020	-10° F - 155° F	L-P-535
77-644-165	0.025	-10° F - 155° F	L-P-535
77-644-170	0.030	-10° F - 155° F	L-P-535
77-644-175	0.040	-10° F - 155° F	L-P-535
77-644-180	0.050	-10° F - 155° F	L-P-535
77-644-185	0.060	-10° F - 155° F	L-P-535



**PRECISION
BRAND**

Polyester

Common Name

Color Coded Shim Stock, Thickness Gage, Slotted
Shim & Arbor Shims
(0.0005" to 0.005" Thick) 42, 44 & 78

Material Safety Data Sheet

Identity (Trade Name As Used On Label) and Product Code

Manufacturer	Precision Brand Products Inc.	Phone Number (For Information)	630-969-7200
Address	2250 Curtiss Street Downers Grove IL 60515 USA	Emergency Phone Number	Chemtrec 800-424-9300 USA & Canada 202-483-7616 International
Date Prepared	05-12-1999	Date Reviewed:	11-27-07

SECTION 1 -- MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS--Chemical Name & Common Names (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	%	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Polyethylene terephthalate	100			
Non-Hazardous Ingredients				
TOTAL	100			

SECTION 2 -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	N/A
Vapor Pressure (mm Hg and Temperature)	N/A	Melting Point	256° C
Vapor Density (Air = 1)	N/A	Evaporation Rate (= 1)	N/A
Solubility in Water	Insoluble	Water Reactive	N/A
Appearance and Odor	Film, variable color		

SECTION 3 -- FIRE AND EXPLOSION HAZARD DATA

SECTION 9 - FIRE AND EXPLOSION HAZARD DATA									
Flash Point and Method Used	N/A	Auto-Ignition Temperature	Flammability Limits in Air % by Volume		N/A	LEL	N/A	UEL	N/A
Extinguisher Media	Water fog, Carbon dioxide, or dry chemical								
Special Fire Fighting Procedures	Self contained breathing apparatus in close proximity of fire.								
Unusual Fire and Explosion Hazards	N/A								

SECTION 4 -- REACTIVITY HAZARD DATA

STABILITY	☒ Stable ☐ Unstable	Conditions To Avoid	
Incompatibility (Materials to Avoid)	None		
Hazardous Decomposition Products	Terephthalic acid, carbon monoxide, and aldehydes above 300° C		
HAZARDOUS POLYMERIZATION	☐ May Occur ☒ Will Not Occur	Conditions To Avoid	

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Material Safety Data Sheets

Precision Brand Products, Inc.

Page 2 – MSDS: Color Coded Shim Stock, Thickness Gage, Slotted Shim & Arbor Shims (0.0005 to 0.005"), Product Codes 42, 44 & 78

SECTION 5 -- HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY ☒ Inhalation ☐ Ingestion ☐ Skin Absorption ☐ Not Hazardous		CARCINOGEN LISTED IN ☐ NTP ☐ IARC Monograph ☐ OSHA ☐ Not Listed	
HEALTH	Acute		
HAZARDS	Chronic deposits in eyes, ears, mucus membranes (particulate debris).		
Signs and Symptoms of Exposure			
Medical Conditions Generally Aggravated by Exposure			
EMERGENCY FIRST AID PROCEDURES -- Seek medical assistance for further treatment, observation and support if necessary.			
Eye Contact	N/A		
Skin Contact	N/A		
Inhalation	Suggest 10 mg/m ³ for inert or nuisance particulate. 1977 ACGIH TLV. When debris generated during fabrication.		
Ingestion	Biologically inert.		

SECTION 6 -- CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (Specify Type)	MESA-NIOSH approved for nuisance particulate for dust generation.		
Protective Gloves	Work gloves to avoid cuts.	Eye Protection	Safety glassed side shields.
VENTILATION TO BE USED	☒ Local Exhaust When creating dust.	☒ Mechanical (general) General dilution.	☒ Special Maintain area below TLV.
Other Protective Clothing and Equipment	Some debris formed when fabricating. Wear goggles and ventilate.		
Hygienic Work Practices			

SECTION 7-- PRECAUTIONS FOR SAFE HANDLING & USE/LEAK PROCEDURES

Steps to be Taken if Material Is Spilled Or Released	Gather up and place in container.
Waste Disposal Methods	Sanitary landfill or high temperature incineration and afterburner in accordance with local, state, and federal pollution regulations.
Precautions to be Taken in Handling and Storage	Movement of film over metal will produce surface electrical charges. These should be reduced or eliminated since they provide a source of ignition for flammable vapors or gasses that may be present.
Other Precautions and/or Special Hazards	Film is resistant to initiation of tearing; hence normal safeguard is for operator to carry a sharp knife to initiate a cut.

NOTE: The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Precision Brand Products, Inc. makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular period. Accordingly, Precision Brand Products, Inc. will not be responsible for damages of any kind resulting from the use of or reliance upon such information. NO REPRESENTATIONS, OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER TO WHICH THE INFORMATION REFERS. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.



Material Safety Data Sheet

Vinyl

Common Name

Color Coded Shim Stock, Thickness Gage, Slotted Shim & Arbor Shims

(0.0075" to 0.060" THICKNESS) 42, 44 & 78

Identity (Trade Name As Used On Label) & Product Code

Manufacturer	Precision Brand Products Inc.	Phone Number (For Information)	630-969-7200
Address	2250 Curtiss Street Downers Grove IL 60515 USA	Emergency Phone Number	Chemtrec 800-424-9300 USA & Canada 202-483-7616 International
Date Prepared	05-12-1999	Date Reviewed:	11-27-2007

SECTION 1 -- MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS--Chemical Name & Common Names (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	%	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Rigid Polyvinyl Chloride	100			
Non-Hazardous Ingredients				
TOTAL	100			

SECTION 2 -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	1.3-1.5
Vapor Pressure (mm Hg and Temperature)	N/A	Melting Point	N/A
Vapor Density (Air = 1)	N/A	Evaporation Rate (= 1)	N/A
Solubility in Water	Insoluble	Water Reactive	N/A
Appearance and Odor	Film, Clear and colors	Vicat Softening Temperature	176° F (80° C)

SECTION 3 -- FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method Used	N/A	Auto-Ignition Temperature	Flammability Limits in Air % by Volume	LEL	N/A	UEL	N/A
Extinguisher Media	Water, Carbon Dioxide, Dry Chemical						
Special Fire Fighting Procedures	Self Extinguishing						
Unusual Fire and Explosion Hazards	N/A						

SECTION 4 -- REACTIVITY HAZARD DATA

STABILITY	Conditions To Avoid	None
☒ Stable		
☐ Unstable		
Incompatibility (Materials to Avoid)	None	
Hazardous Decomposition Products	HCL, CO, CO ₂ , (above 570° F)	
HAZARDOUS POLYMERIZATION	Conditions To Avoid	High heat
☒ May Occur		
☒ Will Not Occur		

Precision Brand Plastic Shim Stock

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Material Safety Data Sheets

Precision Brand Products, Inc.

Page 2: MSDS – Color Coded Shim Stock, Thickness Gage, Slotted Shim & Arbor Shims (0.0075" & up)

Product Codes 42, 44 & 78

SECTION 5 -- HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY		☐ Inhalation	☐ Ingestion	CARCINOGEN LISTED IN		☐ NTP	☐ OSHA
		☐ Skin Absorption	☐ Not Hazardous			☐ IARC Monograph	☐ Not Listed
HEALTH	Acute N/A						
HAZARDS	Chronic N/A						
Signs and Symptoms of Exposure							
Medical Conditions Generally Aggravated by Exposure							
EMERGENCY FIRST AID PROCEDURES -- Seek medical assistance for further treatment, observation and support if necessary.							
Eye Contact	N/A						
Skin Contact	None						
Inhalation	None						
Ingestion	N/A						

SECTION 6 -- CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (Specify Type)	None		
Protective Gloves	None	Eye Protection	None
VENTILATION TO BE USED	☐ Local Exhaust	☐ Mechanical (general)	☐ Special
Other Protective Clothing and Equipment			
Hygienic Work Practices			

SECTION 7-- PRECAUTIONS FOR SAFE HANDLING & USE/LEAK PROCEDURES

Steps to be Taken If Material Is Spilled Or Released	None
Waste Disposal Methods	Landfill
Precautions to be Taken in Handling and Storage	None
Other Precautions and/or Special Hazards	

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PRECISION BRAND	
COLOR CODED SHIM	
Made of high quality plastic material. Thicknesses and colors available.	
Thickness	Color
.0005	Silver
.001	Amber
.0015	Purple
.002	Red
.003	Green
.004	Tan
.005	Blue
.0075	Matte
.010	Brown
.0125	Black
.015	Pink
.020	Yellow
.025	White
.030	Coral
.040	
.050	Clear
.060	