

# PGJ12 MH25872 Printing – Component

## THERMAN X (USA)

<b>THERMAN X</b>	Max Temp	Min Temp	Indoor Use	Outdoor Use	Additional Comments
Acrylic paint (AC PT)	302°F/150°C	-40°F/-40°C	X	X	O
Alkyd paint (AK PT)	302°F/150°C	-40°F/-40°C	X	X	O
Aluminum (AL)	302°F/150°C	-40°F/-40°C	X	X	O, G
Chromate treated metal (EP PT)	302°F/150°C	-40°F/-40°C	X	X	-
Epoxy paint (EP PT)	302°F/150°C	-40°F/-40°C	X	X	-
Epoxy powder paint (EP PDR PT)	302°F/150°C	-40°F/-40°C	X	X	O
Galvanized steel (GS)	302°F/150°C	-40°F/-40°C	X	X	-
Polyester paint (PER PT)	302°F/150°C	-40°F/-40°C	X	X	-
Polyester powder paint (PER PDR PT)	302°F/150°C	-40°F/-40°C	X	X	-
Polyurethane paint (PUR PT)	302°F/150°C	-40°F/-40°C	X	X	-
Porcelain (PRCLN)	302°F/150°C	-40°F/-40°C	X	X	-
Stainless steel (SS)	302°F/150°C	-40°F/-40°C	X	X	O, G
Melamine (ME)	212°F/100°C	-40°F/-40°C	X	X	-
Nylon - Polyamide (PA)	212°F/100°C	-40°F/-40°C	X	X	O, G
Phenolic - Phenol Formaldehyde (PH)	212°F/100°C	-40°F/-40°C	X	X	-
Polycarbonate (PC)	212°F/100°C	-40°F/-40°C	X	X	-
Unsaturated polyester - thermoset (UP)	212°F/100°C	-40°F/-40°C	X	X	O
Acrylonitrile butadiene styrene (ABS)	176°F/80°C	-40°F/-40°C	X	X	O, G
Epoxy (EP)	176°F/80°C	-40°F/-40°C	X	X	-
High density polyethylene (HDPE)	176°F/80°C	-40°F/-40°C	X	X	O, G
Polybutylene terephthalate (PBT)	176°F/80°C	-40°F/-40°C	X	X	O
Polyethylene (PE)	176°F/80°C	-	X	-	-
Polyethylene terephthalate (PET)	176°F/80°C	-40°F/-40°C	X	X	-
Polyphenylene oxide/ether (PPO/PPE)	176°F/80°C	-40°F/-40°C	X	X	-
Polyphenylene sulfide (PPS)	176°F/80°C	-40°F/-40°C	X	X	-
Polypropylene (PP)	176°F/80°C	-40°F/-40°C	X	X	O
Polystyrene (PS)	176°F/80°C	-40°F/-40°C	X	X	O
Polyvinyl chloride (PVC)	176°F/80°C	-40°F/-40°C	X	X	-
Acrylic (AC)	140°F/60°C	-40°F/-40°C	X	X	-

**UL ribbons:**

5 - Armor "AXR8", "AXR600", "AXR-7+", Astro-Med "RY", "R-5", Coding Products "5940", DaiNippon "R-300", Dasco "DR-74", "DR-84", Datamax "SDR-A", "SDR-D", "SDR-6", "SDR", "SDR-4", "PGR", "SDR-7", "SDR Millenium" limak "SH 36", "SP 330", "SP-410", "Primemark", Intermec "054048-4", "053258-2", ITW "B324", "R-90", "M 95", Japan Pulp and Paper "Resin 1", Kurz "K-500", Mid-City Columbia "MCC 23HE", "CGL-80HE", NCR "Promark 3", "Pacesetter", "Matrix Resin", "Ultra V", Peak "Ultra Premium", Ricoh "B110C", "B110CR", RSI ID Technologies "Pressiza H", "Pressiza R", "Pressiza S", "Pressiza X", Sato "Premier 1", Sony "Signature Series? Resin", "4070", "4072", "4571", "4075", "4085", "4080", "5070", "TR6075", "TR6070", "TRX-75", Union Chemical "US-300", Zebra "5095", "5175", "5100", "Z-4100" and "5555" thermal transfer ribbon inks.

# PGJI8 MH25872 Printing – Component

## THERMAN X (CANADA)

<b>THERMAN X</b>	Max Temp	Min Temp	Indoor Use	Outdoor Use	Additional Comments
Metals	302°F/150°C	x	x	x	-
Electrostatic coated metal A	302°F/150°C	x	x	x	-
Electrostatic coated metal B	302°F/150°C	x	x	x	-
Electrostatic coated metal C	302°F/150°C	x	x	x	-
Electrostatic coated metal D	302°F/150°C	x	x	x	-
Plastic Group I	212°F/100°C	x	x	x	-
Plastic Group II	176°F/80°C	x	x	x	-
Plastic Group III	176°F/80°C	x	x	x	-
Plastic Group IV	176°F/80°C	x	x	x	-
Plastic Group V	176°F/80°C	x	x	x	-
Plastic Group VI	176°F/80°C	x	x	x	-
Plastic Group VII	176°F/80°C	x	x	x	-
Plastic Group VIII	176°F/80°C	x	x	x	-

**cUL ribbons:**

9 - Armor "AXR8", "AXR7+", "AXR600", Astro-Med "RY", Coding Products "5940", Dainippon "R-300", Datamax "SDR-A", "SDR-D", "SDR-6", "SDR-7", "SDR", "SDR-4", Iimak "SP-330" ITW "R-90", Kurz "K-500", Mid-City Columbia "MCC 23HE", "CGL-80HE", NCR "Promark 3", Peak "Ultra Premium", Ricoh "B110C" (suitable for exposure to SAE 20W20 Nondetergent Oil and Stoddard Solvent), RSI ID Technologies "Pressiza S", "Pressiza X", Sato "Premier 1", Sony "5070", "4070", "4075", "TR6075", Zebra "5095" and "Z-4100" thermal transfer ribbon inks.