

ADDENDUM NO. 2 ISSUED JULY 28, 2023 to BID INVITATION NO. 4437

FURNISHING SNOW PLOW BLADES

OPENING DATE: 2:00 P.M. (EASTERN TIME), AUGUST 2, 2023

ATTENTION OF BIDDERS IS DIRECTED TO:

ANSWERS TO QUESTIONS RECEIVED THROUGH 11:00 A.M. ON JULY 28, 2023

Issued by the Ohio Turnpike and Infrastructure Commission through Aimee W. Lane, Esq., Director of Contracts Administration.

Aimee W. Lane, Esq.

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Director of Contracts Administration

July 28, 2023

ANSWERS TO QUESTIONS RECEIVED THROUGH 11 A.M. ON JULY 28, 2023:

Q#2 Is there a brand you are looking for?

A#2 The Commission does not have a specific brand called out, all that is required is that the vendor meets the specifications.

Q#3 I would like to submit the following material for approval for Group II rubber plow blades on Bid #4437

"SNOW PLOW RUBBER" *Compound Physical Properties—Textured Impression Finish ASTM D 412 -TENSILE 2400 psi (15.9 MPa) minimum Modulus @ 100% 500 psi (typical) Modulus @ 200% 900 psi (typical) Modulus @ 300% 1200 psi (typical) Elongation @ Break 450 % minimum ASTM D2240: Hardness 60 ± 5 Durometer (Shore A) ASTM D 624: Tear Resistance (Die C) -229 ppi (lbs per inch) minimum ASTM D 297: Density / Specific Gravity-1.135 typical ASTM D 395: Compression Set: 22 hrs. @ 158° F 15% typical (25% max) 22 hrs. @ 212° F -25% typical (50% max.) ASTM D 573: Deterioration of Properties (% Difference from Originals) (Heat Aging - Air Oven) 70 hrs. 158° F Tensile -20% max. -35% max. Elongation Durometer - ± 6 pts. max ASTM D 2137: Low Temperature Brittleness (- 40° F) ASTM D 2137: Ozone Resistance (3 days @ 25 pphm) - Pass

	Original Specifications	Proposed Material
ASTM D412: Tensile	2500 psi minimum	2400 psi (15.9 MPa) minimum
Modulus @ 100%	300 psi minimum	500 psi (typical)
Modulus @ 200%	800 psi minimum	900 psi (typical)
Modulus @ 300%	1350 psi minimum	1200 psi (typical)
Elongation @ Break	500% minimum	450% minimum
ASTM D2240: Hardness	60 +/- 5 Durometer	60 +/- 5 Durometer (Shore A)
ASTM D624: Tear Resistance	200 ppi minimum	229 ppi (lbs per inch) minimum
(Die C)		
ASTM D297: Density/Specific	1.15 typical	1.135 typical
Gravity		
Modulus @ 100%	300 psi minimum	Not noted

ASTM D395 Compression Set	Not noted	22 hrs @ 158 deg F – 15% typical, 25% max
	Not noted	22 hrs @ 212 deg F – 25% typical, 50% max
ASTM D573: Deterioration of Properties (% Difference from Originals) Heat Aging by Air Oven	Tensile, 70 hrs at 70 deg C: 30% maximum	Tensile, 70 hours @ 158 deg F: -20% maximum
	Elongation: 50% maximum	Elongation: -35% maximum
ASTM D2137 Low Temperature Brittleness	(-40 deg C) Pass	(-40 deg F) Pass
ASTM D1149 Ozone Resistance	3 days @ 25pphm – Pass	3 days @ 25pphm - Pass

Please let me know if this is an approved material to bid for Group II.

A#3 The proposed equal meets and is approved as an equal.

END OF ADDENDUM NO. 2