

PRODUCT DATA SHEET (1/12/06)

TM

ECO-FLEX RTPE

M442/M730

Property	Test Method	Unit		M442	M730
Specific Gravity	ASTM D 279			1.03	1.06
Hardness	ASTM D 2240, 15 second delay	Shore A		90	80
Tensile Strength Across Grain Direction	ASTM D 412, Die C, 500 mm/min	MPa (psi)		6.2 (901)	5.0 (726)
Elongation at Break Across Grain Direction	ASTM D 412, Die C, 500 mm/min	%		137	172
Modulus at 100% Elongation (Across grain direction)	ASTM D 412, Die C, 500 mm/min	MPa (psi)		6.1 (886)	4.4 (635)
Tear Strength Across Grain Direction	ASTM D624, Die C, 500 mm/min	kN/m		53	35
Staining Resistance	ASTM D 925, Methods A & B, 96 hours			no staining	no staining
Low Temperature Flexibility	ISO812, Type B, -40 C			no cracking	no cracking
Ozone Resistance (Visual assessment)	ISO 1431-1, Procedure A, 336 hours, 100 pphm, 40°C. Use across grain specimens for Type II & Type III.			Zero Rating	Zero Rating
Heat Aging Resistance Hardness Change Tensile Strength Change Elongation Change	ASTM D 573, 168 hours at 70°C in an air-circulating oven followed by indicated property testing at 23°. Across grain specimens.	points % %		-4 +8 +14	-1 +7 -10
Long Term Heat Aging Resistance Hardness Change Tensile Strength Change Elongation Change	ASTM D 573, 1008 hours at 70°C in an air circulating oven followed by indicated property testing at 23°. Across grain specimens.	points % %		+3 +7 -24	+5 +10 -28

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