

PolyGlobal HyperPol™ Eco



Hyperpol™ is a series of polyurethane elastomers. Key benefits include good abrasion, chemical & hydrolysis resistance, high elongation & tensile strength and low temperature flexibility.

Hyperpol™ Eco is fully recyclable and comprised of a percentage of factory controlled recycled material. Developed to offer a more environmentally responsible and sustainable production option that still offers the key properties of the Hyperpol brand. Fixed at one shore hardness Hyperpol Eco is fairly rigid but with sufficient flex to allow for effective use in damping and protection applications

- ✓ Fully recyclable
- ✓ Good balance of mechanical properties
- ✓ Good colourability
- ✓ Cost effective
- ✓ Utilised for protection & damping applications

For comparative purposes similar grades from our Hyperpol™ Hydro and Hyperpol™ XL ranges have been included.

Grade	UoM	ECO A85	HYA80	HYA85	XLA80	XLA90
Hardness	Shore A	85	81	87	82	90
Hardness	Shore D	-	-	-	-	-
100% Modulus	MPa	3	4	6	4.8	7.5
300% Modulus	MPa	6	8	10	9.0	14
Tensile Strength	MPa	15	28	34	28	39
Elongation at Break	%	650	700	600	620	600
Tear Strength	N/mm	80	90	110	120	145
Abrasion Loss	mm ³	-	40	40	40	40

Definition of Terms	
Hardness	The resistance of a material to indentation.
100% Modulus	The force needed to stretch a material to twice its original length.
300% Modulus	The force needed to stretch a material to four times its original length.
Tensile Strength	The force needed to stretch a material until it breaks.
Elongation at Break	How much a material can stretch before it breaks, as a % of its original dimensions.
Tear Strength	The maximum force required to tear a test specimen perpendicular to the direction of the stress. Higher numbers indicate higher resistance to tearing.