



## Material Data Sheet

### XyloX™

#### Thermoplastic Elastomer (TPE) made from 100% Reprocessed Recycled Tire Rubber Crumb, Post-Industrial and Post-Consumer Plastic Pellets

The **XyloX™** line of TPE products is the newest and most revolutionary blend of recycled tire rubber crumb and post-industrial plastic, there are no glues or adhesives used in the blending process. The bond is originated at the molecular level. Automotive parts manufacturers can mould to manufacture many components used in auto manufacturing today; producing a better product that saves energy and the environment!

From a "cost" perspective, **XyloX™** TPE is less expensive than TPE manufactured from virgin materials resulting in lower product costs. The ability to reuse scrap material is also a significant cost benefit.



#### PRODUCT APPLICATIONS

TPEs are used where conventional elastomers cannot provide the range of physical properties needed for a product. **XyloX™** TPE can be pelletized for injection molding applications or it can be extruded as a profile with the added benefit of incorporating the elastic properties of rubbers. As a result, these materials are ideal for large variety of applications in the automotive sector. Auto Grills, Locks, Window-Crank Covers, Gas-Tanks, Power Steering Reservoirs, Fender Liners, Windshield Visors and Interior Door Panels are just a few examples of automotive part that are already produced from TPE.

## Automotive



# Construction



# Packaging



Commercial Automotive Application Grade: XyloX -8020-HDPE	Post-Industrial Recycled Plastic 80 %	Rubber 20 %
Melt Flow Index. g/10 min. (190°C/2.16kg)	ASTM D1238	3.5
Density, g/cc	ASTM D792	0.984
Tensile Strength @ yield, psi (rate 2"/min)	ASTM D638	1962
Elongation @ yield, %	ASTM D638	42
Flexural Modulus, psi (1% secant, .05"/min)	ASTM D790	49459
Notched Izod, Impact, ft. lbs/in. @ 23°C	ASTM D256	3.1
Notched Izod, Impact, ft. lbs/in. @ -30°C	ASTM D256	1.4
Hardness, Shore D	ASTM D2240	59
Ash, %	ASTM D5630	2.8

Commercial Automotive Application Grade: XyloX -7525-HDPE	Post-Industrial Recycled Plastic 75 %	Rubber 25 %
Melt Flow Index. g/10 min. (190°C/2.16kg)	ASTM D1238	3.6
Density, g/cc	ASTM D792	0.993
Tensile Strength @ yield, psi (rate 2"/min)	ASTM D638	1845
Elongation @ yield, %	ASTM D638	46
Flexural Modulus, psi (1% secant, .05"/min)	ASTM D790	46310
Notched Izod, Impact, ft. lbs/in. @ 23°C	ASTM D256	4.1
Notched Izod, Impact, ft. lbs/in. @ -30°C	ASTM D256	1.6
Hardness, Shore D	ASTM D2240	59
Ash, %	ASTM D5630	3.5

Commercial Automotive Application Grade: XyloX -7030-HDPE	Post-Industrial Recycled Plastic 70 %	Rubber 30 %
Melt Flow Index. g/10 min. (190°C/2.16kg)	ASTM D1238	3.7
Density, g/cc	ASTM D792	1.003
Tensile Strength @ yield, psi (rate 2"/min)	ASTM D638	1792
Elongation @ yield, %	ASTM D638	43
Flexural Modulus, psi (1% secant, .05"/min)	ASTM D790	45005
Notched Izod, Impact, ft. lbs/in. @ 23°C	ASTM D256	3.9
Notched Izod, Impact, ft. lbs/in. @ -30°C	ASTM D256	1.6
Hardness, Shore D	ASTM D2240	59
Ash, %	ASTM D5630	3.4

The buyer must perform all tests necessary to confirm whether the product and its performance and qualities are suitable for the intended application. Final determination of fitness of the product for the intended application is the buyer's responsibility. ReNeuvo Group Inc. shall not be liable for any misuse or misapplication of its products.

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