

SANTOPRENE® 101-80 ECO-R

A soft, black, versatile thermoplastic vulcanizate (TPV) grade in the thermoplastic elastomer (TPE) family made using minimum 15% post-consumer recycled (PCR) materials. It is a general-purpose product well suiting needs of extrusion, co-extrusion applications, particularly that of static foot of automotive weather seal systems like glass run channels. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for extrusion or thermoforming. It is polyolefin based and recyclable within the manufacturing stream.

Typical mechanical properties

Stress at 100% elongation	653 psi	ISO 527-1/-2 or ISO 37
Stress at break	1260 psi	ISO 527-1/-2 or ISO 37
Elongation at break	560 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	83	ISO 48-4 / ISO 868
Compression set at 23°C, 24h	26 %	ISO 815
Compression set at 70°C, 24h	38 %	ISO 815
Initial Tear Resist., Die C	240 lb/in	ISO 34-1

Extrusion

Drying Temperature	180 °F
Drying Time, Dehumidified Dryer	3 h
Melt Temperature Range	347 - 401 °F

Characteristics

Additives	Contains Recycle
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Processing Texts

Processing Notes	Desiccant drying for 3 hours at 82°C (180°F) is recommended. Santoprene® TPV has a wide temperature processing window from 175 to 230°C (350 to 450°F) and is incompatible with acetal and PVC.
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