

SANTOPRENE® 123-40 ECO-R (PRELIMINARY)

A developmental hard, black thermoplastic vulcanizate (TPV) grade in the thermoplastic elastomer (TPE) family made using up to 50% post-consumer recycled (PCR) materials. It is a general-purpose product well suiting needs of many molding, extrusion, coextrusion applications. It is polyolefin based and recyclable within the manufacturing stream.

Typical mechanical properties Stress at 100% elongation 1330 psi ISO 527-1/-2 or ISO 37 Stress at break 1330 psi ISO 527-1/-2 or ISO 37 Elongation at break 403 % ISO 527-1/-2 or ISO 37 ISO 48-4 / ISO 868 Shore D hardness, 15s 41 Compression set at 70°C. 24h 50 % ISO 815 Compression Set, 125°C, 70h 75 % ISO 815 Other properties Density ISO 1183 493 lb/gal Injection **Drying Temperature** 180 °F Drying Time, Dehumidified Dryer 4 h **Processing Moisture Content** 0.08 % Max. regrind level 20 % 401 °F Melt Temperature Optimum Internal Max. mould temperature 50 - 126 °F Vent depth 1 mil Back pressure 50 - 99.9 psi Injection speed fast Extrusion **Drying Temperature** 180 °F Drying Time, Dehumidified Dryer 4 h Melt Temperature Range 356 - 428 °F

Characteristics

Additives

Contains Recycle

Processing Texts

Processing Notes

Desiccant drying for 3 hours at $80 \degree C$ ($180 \degree F$) is recommended. Santoprene® TPV has a wide temperature processing window from 175 to $230 \degree C$ (350 to $450 \degree F$) and is incompatible with acetal and PVC.

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