Sutper®TPV V5010002

Product Description

This product is a type of thermoplastic elastomer (TPE), specifically a softer, and versatile Thermoplastic Vulcanizates（TPV）material. It offers excellent physical and mechanical properties, along with superior chemical resistance and elasticity, it is a polyolefin elastomer that can be fully recycled and reused during production.

Specifications

Applications	•NSF High Stiffness Bathroom Extruded Hose
Environmental	•RoHS compliant
Appearance	•Natural color
Form	•Granules
Molding method	•Extrusion Molding
Availability	•Europe •North America •Asia •Africa & Middle East

Physical Properties	Typical Value	Unit	Test Method
Density	0.96	g/cm^3	ASTM D792
Melt Flow Index (230℃*5kg)	8	g/10min	ASTM D1238

Hardness	Typical Value	Unit	Test Method
Shore A,10sec,23℃	92	A	ASTM D2240

Mechanical Properties	Typical Value	Unit	Test Method
100% Tensile Strength - Vertical Flow (23°C)	9	Mpa	ASTM D412
Tensile Strength - Vertical Flow (23°C)	20	Mpa	ASTM D412
Break Elongation-Vertical Flow23℃	600	%	ASTM D412
Tear Strength -Vertical Flow 23℃ Die C	65	KN/m	ASTM D624

Additional Information

1. TPV is incompatible with materials such as PVC, so equipment must be cleaned.
2. The above test data were obtained using fan gate injection molded specimens with dimensions of 110 mm × 80 mm × 2 mm. The tensile strength, elongation at break, and stress at a given elongation were tested perpendicular to the flow direction, while tear strength was tested along the flow direction.
3. The compression rate for compression set is 25%.
4. The properties listed are typical and should not be considered technical specifications or part of an agreement.
5. The user should be aware that Sutper needs to confirm all final details before taking any action based on the information and recommendations in this document.