TPV Elastoprene® N80A-E

Polypropylene + EPDM Rubber

ELASTORSA Elastomeros Riojanos S.A.

Message:

General Information

Dynamically vulcanized thermoplastic (TPV) is a particular type of thermoplastic elastomer (TPE) which offers much better results given the exclusive combination of an elastomeric phase deeply dispersed in a continuous thermoplastic phase.

TPV Elastoprene® is a mixture of polypropylene and dynamically vulcanised EPDM rubber (PP/EPDM), with properties similar to those of other rubber products but with better results than traditional plastic materials. Its composition makes it compatible and particularly suitable for the co-extrusion processes of polypropylene profiles.

Due to the enormous advantages of processability, vulcanized rubber materials are being substituted by TPV Elastoprene®, using the traditional technology in the transformation of plastic. Furthermore, with the excellent properties obtained, TPV Elastoprene® is replacing plastic materials like PVC. TPV Elastoprene® is completely recyclable and reusable, safe to the environment, thus improving the overall profitability of the process; an added advantage to rubber production and manufacture.

TPV Elastoprene® has good resistance to the effects of the ozone, UV and diverse chemical products, with an operating temperature from -60 to 135°C. APPLICATIONS

The excellent properties of this material make it ideal for the demanding requirements of the automobile industry.

Its principal application is for extruded or PP co-extruded sealing profiles, for both the interior and exterior of vehicles. It is possible to obtain finished products in flock, adhesive tape, etc.

In the construction industry, profile parts can be used for insulation, protectors and for embellishments on doors and windows.

Features Good UV resistance Recyclable materials Ozone resistance Good chemical resistance Vess Architectural application field Seals Application in Automobile Field Profile Appearance Black Forms Particle Processing Method Co-extrusion molding Profile extrusion molding Profile extrusion molding Profile extrusion molding Physical Nominal Value Unit Test Method Durometer Hardness Nominal Value Unit Test Method Durometer Hardness Shore A, 5 seconds, 2.00mm, extruded 80 Shore A, 5 seconds, 2.00mm, injection molding Ses Elastomers Nominal Value Unit Test Method Unit Test Method Tensile Stress (100% Strain, 2.00 mm) So 868 Elastomers Nominal Value Unit Test Method				
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molding 85 ISO 868 Elastomers Vominal Value Unit Test Method	Shore A, 5 seconds, 2.00mm, extruded	80		ISO 868
Elastomers Nominal Value Unit Test Method	Shore A, 5 seconds, 2.00mm, injection			
	molding	85		ISO 868
Tensile Stress (100% Strain, 2.00 mm) 5.00 MPa ISO 37	Elastomers	Nominal Value	Unit	Test Method
	Tensile Stress (100% Strain, 2.00 mm)	5.00	MPa	ISO 37

Tensile Stress (Yield, 2.00 mm)	11.0	MPa	ISO 37
Tensile Elongation (Break, 2.00 mm)	450	%	ISO 37
Tear Strength (23°C, 2.00 mm)	15	kN/m	ISO 34-1
Compression Set (70°C, 22 hr)	40	%	ISO 815
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-55.0	°C	ISO 812
Extrusion	Nominal Value	Unit	
Extrusion Drying Temperature	Nominal Value 80.0	Unit °C	
Drying Temperature	80.0	°C	
Drying Temperature Drying Time	80.0	°C hr	

Recommended Scrap: 20%

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