TPV Elastoprene® N80A-E

Polypropylene + EPDM Rubber

ELASTORSA Elastomeros Riojanos S.A.

Message:

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.

General Information	
Features	Good UV resistance Recyclable materials Ozone resistance Good chemical resistance
Uses	Architectural application field Seals Application in Automobile Field Profile
Appearance	Black
Forms	Particle
Processing Method	Co-extrusion molding Profile extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm³	ISO 1183
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ISO 868
Shore A, 5 seconds, 2.00mm, extruded	80		ISO 868
Shore A, 5 seconds, 2.00mm, injection molding	85		ISO 868
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	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Melt Temperature	170 - 200	°C	
Die Temperature	200 - 215	°C	
Extrusion instructions			

Recommended Scrap: 20%

Recommended distributors for this material

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