TPV Elastoprene® N87A-S

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.
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 to satisfy the demanding requirements of the automobile sector, due to its response to temperature and compression set deformation. It can be used in both the inner and outer part of the vehicle.
Its principle application is for hollow parts which, given their shape, are manufactured via blow molding: such as bellows or conductions pipes.

General Information			
Features	Good UV resistance Recyclable materials Ozone resistance Good chemical resistance		
Uses	Blow molding applications Piping system Application in Automobile Field		
Appearance	Black		
Forms	Particle		
Processing Method	Blow molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.950	g/cm³	ISO 1183
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 5 sec, 2.00 mm, Injection Molded)	87		ISO 868
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain, 2.00 mm)	7.50	MPa	ISO 37
Tensile Stress (Yield, 2.00 mm)	13.0	MPa	ISO 37
Tensile Elongation (Break, 2.00 mm)	500	%	ISO 37
Tear Strength (23°C, 2.00 mm)	29	kN/m	ISO 34-1
Compression Set (70°C, 22 hr)	48	%	ISO 815
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-51.0	°C	ISO 812

Extrusion	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0	hr
Melt Temperature	180 - 215	°C
Die Temperature	200 - 230	°C

Extrusion instructions
Recommended Scrap: 20%

Recommended distributors for this material

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