TPV Elastoprene® N80A-i

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 co-injection with polypropylene.
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 principle application is for al types of molded parts for injection and overmolding with PP, for both the interior and exterior of vehicles.
In the construction industry, it can be used for supports and sealing profiles.
It can also be used for membranes, wheels and overmolding on handles for tools, electrical appliances and all types of consumer goods.

General Information	
Features	Good Chemical Resistance
	Good UV Resistance
	Ozone Resistant
	Recyclable Material
Uses	Appliances
	Automotive Applications
	Construction Applications
	Consumer Applications
	Membranes
	Overmolding
	Seals
	Wheels
Appearance	Black
Forms	Pellets
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm³	ISO 1183

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 5 sec, 2.00 mm, Injection Molded)	80		ISO 868

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain, 2.00 mm)	3.90	MPa	ISO 37

Tensile Stress (Yield, 2.00 mm)	7.80	MPa	ISO 37
Tensile Elongation (Break, 2.00 mm)	430	%	ISO 37
Tear Strength (23°C, 2.00 mm)	13	kN/m	ISO 34-1
Compression Set (70°C, 22 hr)	40	%	ISO 815

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0	hr
Suggested Max Regrind	20	%
Nozzle Temperature	210 to 230	°C
Processing (Melt) Temp	200 to 220	°C

Recommended distributors for this material

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