



PRODUCT INFORMATION

TAROPRENE 1A80 E6N V0

Thermoplastic Elastomer Vulcanized. This TPE-V compound combines the typical performance of a vulcanized elastomer with the easy processing of a thermoplastic compound.

ISO short Form ISO 1043: TPV-(EPDM+PP) FR(40) Pellets

Key Features

- Flame retardant
- Designed for extrusion applications
- Good adhesion to polyolefinic substrate

Availability

- Natural and Black colours

Process

- EXTRUSION

Application

- General purpose applications
- Wire and cable jacket
- Electrical
- Building
- Seals and gaskets
- Covering
- Tubing
- Automotive

Property	Method	Unit	Value	Condition	State
PHYSICAL					
Density (+23°C)	ISO 1183	g/cm ³	1,24		
Melt Flow Rate (MFR)	ISO 1133	g/10 min	2,0	190°C - 5,0 kg	
MECHANICAL					
Hardness SHORE A	ASTM D2240	Shore A	80	3 sec	
Tensile Break Strength	ASTM D412/C	MPa	7,0		
Elongation at Break	ASTM D412/C	%	550		
Tensile Modulus at 100% elongation	ASTM D412/C	MPa	3,8		
Tensile Modulus at 300% Elongation	ASTM D412/C	MPa	4,5		

The listed data are in the normal range of product properties, they should not be used to establish specification nor as the basis of design. Values are valid for natural coloured version only.

Unless specified to the contrary, the given values have been established on standardized test specimens at room temperature. These values are for natural colour only. The figures should be regarded as guide values only and not as binding minimum values. Please note that, under certain conditions, the properties can be affected to a considerable extent by the design of the mold/die, the processing conditions, pigments and any other additives.

All information, recommendation or technical advice provided by TARO PLAST S.p.A. are given in good faith but without warranty, to the best of its knowledge and based on current procedures in effect. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing methods and conditions of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely under your own responsibility.

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Tear Strength	ASTM D624/C	N/mm	38
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FLAMMABILITY

Flame Behaviour (1,6 mm)	UL94	Class	V0
Flame Behaviour (3,2 mm)	UL94	Class	V0
Oxygen index	ASTM D2863	%	27

EXTRUSION

	Value
Drying Temperature (Desiccant Dryer)	80 - 90°C
Drying Time (Desiccant Dryer)	3 h
Melt Temperature	180 - 210°C
Feed Temperature	180°C
Rear Temperature	185°C
Middle Temperature	190°C
Front Temperature	200°C
Die Temperature	210°C
Back Pressure	50 - 150 bar
Screw Revolving Speed	25 - 80 rpm
Screw L/D Ratio	24:1 / 30:1
Screw Compression Ratio	min 2,5:1 / max 4:1

Notes TAROPRENE is incompatible with POM and PVC. All TAROPRENE compounds must be stored indoors at a temperature below 40°C avoiding humidity and direct sunlight as well. We recommend that all TAROPRENE products are always dried prior to use at the specified drying conditions. Despite a longer shelf storage life without loss of properties, we recommend to use the material within 6 months from the production date.

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