



PRODUCT INFORMATION

TAROPRENE 1A40 M1M

Thermoplastic Elastomer Vulcanized. This TPE-V compound combines the typical performance of a vulcanized elastomer with the easy processing of a thermoplastic compound. Taroprene is totally recyclable and it can be produced in standard grades and in tailor-made grades.

ISO short Form ISO 1043: PP-EPDM Pellets

Key Features

- Designed for injection moulding applications
- Good flowability
- Good adhesion to polyolefinic substrate

Availability

- All colours

Process

- INJECTION MOULDING

Application

- General purpose applications
- Furniture
- Consumer
- Building
- Covering
- Tubing
- Automotive

Property	Method	Unit	Value	Condition	State
PHYSICAL					
Density (+23°C)	ISO 1183	g/cm ³	0,97		
Melt Flow Rate (MFR)	ISO 1133	g/10 min	12	190°C - 5 kg	
MECHANICAL					
Hardness SHORE A	ASTM D2240	Shore A	40	3 sec	
Tensile Break Strength	ASTM D412/C	MPa	2,9		
Elongation at Break	ASTM D412/C	%	460		
Tensile Modulus at 100% elongation	ASTM D412/C	MPa	1,1		
Tensile Modulus at 300% Elongation	ASTM D412/C	MPa	1,8		

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.

Under the recommended processing conditions small quantities of decomposition product may be given off during processing. To preclude any risk to both the health and the well-being of the machine operatives, tolerance limits for the work environment must be ensured by the provision of efficient exhaust ventilation systems and fresh air at the workplace in accordance with the product Safety Data Sheet. In order to prevent the partial decomposition of the polymer and the generation of volatile decomposition products, the prescribed processing temperatures and conditions should not be substantially exceeded.

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	13	
Compression Set	ASTM D395/B	%	30	22 h - 70 °C
Compression Set	ASTM D395/B	%	36	22 h - 100 °C

INJECTION MOULDING	Value
Drying Temperature (Circulating Air Oven)	80°C
Drying Time (Circulating Air Oven)	3h
Melt Temperature	180 - 220°C
Rear Temperature	160-180°C
Middle Temperature	180-220°C
Front Temperature	190-230°C
Nozzle Temperature	200-230°C
Mould Temperature	25 - 40°C
Injection Rate	MEDIUM-HIGH

Notes All TAROPRENE compounds must be stored indoors at a temperature below 40°C avoiding humidity and direct sunlight as well.
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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