



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
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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		



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

Value

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