Sconablend® TPE 80 X 15-11 Black

Characteristics **thermoplastic elastomer**

Sconablend® TPE 80 X 15-11 is a compound for thermoplastic processing with rubber - like properties.
Sconablend® TPE 80 X 15-11 provides a number of outstanding physical properties:

- **high elasticity, flexural and tensile strength**
- **good flexibility at low temperatures and ageing properties**
- **reuse of in-plant waste without difficulties**
- **excellent processing properties**
- **applicable for hard - soft connections**
- **good surface properties (soft touch)**

Properties / Application

With its wide range of excellent properties, **Sconablend® TPE 80 X 15-11** can be used for numerous applications e.g. technical goods for the automotive industry, handles for sporting goods and toy parts.
Sconablend® TPE 80 X 15-11 has excellent adhesion to polyolefines, blends and composites based on polyolefines. Therefore it opens interesting possibilities for solutions in the production and processing of hard - soft connections by two component injection-moulding or coextrusion welding, e.g. sealing lips for fan systems, encapsulation of tools and impellers.

Processing

Sconablend® TPE 80 X 15-11 can be processed by injection-moulding and extrusion.
Injection-moulding melt temperatures ranging from **180°C to 240°C** and mould temperatures ranging from **30°C to 50°C** are recommended.
The injection rate should be as high as possible.

The extrusion of **Sconablend® TPE 80 X 15-11** requires melt temperatures between **160°C and 190°C.**

Sconablend® TPE 80 X 15-11 is not hygroscopic and therefore drying is not necessary if the material is stored properly.

Supply and storage

Sconablend® TPE 80 X 15-11 is supplied in the form of cylindrical granules in **black tone**. It is delivered in PE bags of 25 kg.

The material should be stored in the original packing in dry rooms at temperatures lower than 35°C and protected from detrimental factors such as water and / or intensive solar radiation.

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Typical characteristics

Eigenschaften/ Caracteristiques/ Characteristics	**Einheit/ Unites/ Units**	**Norm/ Methodes d' essai/ Test method**	**Wert/ Valeurs/ Values**
Dichte/*Dendité/Density*	g/cm³	ISO 1183	1,05 ± 0,03
Härte/*Dureté/Hardness*	Shore A	ISO 868	80 ± 5
Modul, 100%/*Module, 100%/Modulus at 100%* - längs/*longitudinal/longitudinal* - quer/*transversal/transverse*	N/mm²	ISO 527	 > 3,0 > 2,6
Zugfestigkeit/*Résistance en traction au seuil/ Tensile strength at yield* - längs/*longitudinal/longitudinal* - quer/*transversal/transverse*	N/mm²	ISO 527	 > 4,5 > 4,5
Bruchdehnung/*Allongement de rupture/ Strain at break* - längs/*longitudinal/longitudinal* - quer/*transversal/transverse*	%	ISO 527	 > 400 > 450
Druckverformungsrest (22h, 70°C)/*Déformation rémanente/Compression set*	%	ISO 815	< 75

The information, properties and recommendations in this file are based on the current technical knowledge and past experience. They are provided for general guidance only. All recommendations and suggestions are therefore made without guarantee.

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