Technical Data Sheet

ArsaElast-I 21004

Product Type: Thermoplastic Elastomer (TPE)

Product Description: ArsaElast is a Thermoplastic Elastomer which is made of an elastomeric phase (EPDM) deeply dispersed in a polyolefin thermoplastic matrix, whose combination determines a real plasto-elastomeric alloy characterized by high performances and extremely easy process-ability. The thermoplastic matrix allows Arsaelast to be processed in an easy, un-expensive way by means of traditional technologies used for thermoplastic materials, and to be fully recyclable, while its elastomeric phase features typically rubber-like specifications such as elastic recovery and softness.

Application in automotive industry: Fuel Pipe Cover, Air ducts, pipe grommets, weather seals, glass encapsulation, belt line seals, air vents, buttons, mats

Property	Test Method	Test Condition	Value	Unit
General Properties				
Material	PP-EPDM			
Process Method	Extrusion			
Color	Black			
Physical Properties				
Density	ASTM D 792	(23 °C)	0.93	g/cm3
Ash/Filler/ TD Content	ASTM D 5630	(600 °C)	/	%
Melt Flow Index	ASTM D 1238	190 °C-2.16 kg	1.6	gr/10min
Mechanical Properties				
Tensile Strength at Break	ASTM D 638	(50 mm/min)	N.B.	MPa
Tensile Strength Yield	ASTM D 638	(50 mm/min)	6.3	MPa
Tensile strain at Break	ASTM D 638	(50 mm/min)	N.B.	%
Tensile strain at Yield	ASTM D 638	(50 mm/min)	10	%
Izod Impact Strength	ASTM D 256	Notched at 23°C	N.B.	KJ/m^2
Hardness	ASTM D 2240	/	87	Shore A

- All mentioned information in this technical data sheet present current knowledge and experience of Arsam. Naturally, these data do not guarantee certain values since may vary on customers processing conditions, so they are provided for reference purposes only and should not be used alone to create specification limits and design basis.

Processing Conditions:

- Recommended Zone Setting are as follows: (190-210) °C
- Pre-drying is necessary for materials and dryer operation at 80 °C is recommended. Drying time 2-4 hour is generally sufficient.

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