

Technical Data Sheet

ArsaFlex 42001

Product Type: ArsaFlex is a thermoplastic vulcanizate, TPV (EPDM/PP)

Product Description: ArsaFlex 42001 is a soft, black, versatile thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material combines good physical properties and chemical resistance for use in a wide range of injection molding applications. This grade of ArsaFlex TPV is shear-dependent and can be processed on conventional thermoplastic equipment for extrusion and injection molding. It is polyolefin based and recyclable within the manufacturing stream.

Property	Test Method	Test Condition	Value	Unit
General Properties				
Material	thermoplastic vulcanizate, TPV (EPDM/PP)			
Process Method	Injection-Extrusion			
Color	Black			
Physical Properties				
Density	ASTM D 792	(23 °C)	0.91	g/cm ³
Mechanical Properties				
Tensile Strength at Break	ASTM D 638	(50 mm/min)	11	MPa
Tensile Strength Yield	ASTM D 638	(50 mm/min)	5.5	MPa
Tensile strain at Break	ASTM D 638	(50 mm/min)	520	%
Tensile strain at Yield	ASTM D 638	(50 mm/min)	8	%
Hardness	ASTM D 2240	-	35	Shore D

- 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: (180-240) °C
- Mold Surface Temperature: (10-52) °C
- Pre-drying is necessary for materials and dryer operation at 80 °C is recommended. Drying time 2-4 hour is generally sufficient