

ASA · Technical Data Sheet

General Features

Chemical Name Acrylonitrile Styrene Acrylate	Benefits <ul style="list-style-type: none"> • UV resistance, suitable for outdoor use • Good mechanical strength 	
---	---	--

Filament Characteristics

Diameter	Ø 1.75mm
Meters per spool	273.520m
Weight per meter	2.74g
Tolerance	±0.05mm

Material Properties

		Typical value	ASTM Method
Specific gravity	g/cm ³	1,11	ISO 1183
MFR 220°C/10kg	g/min	26.6 /10	ISO 1133
Tensile Strength atYield	MPa	47.5 MPa	ISO 527
Strain at break	%	15	ISO 527
Tensile (E) modulus	MPa	2020	ISO 527
Impact Strength Charpy method 23°C Notched	kJ/m ²	18	ISO 179
Printing Temp.	°C	245±10	DF
Melting Temp.	°C	230±10	ISO 294
Vicat Softening Temp	°C	98	ISO 306

Storage: Cool and dry (15-25°C). This enhances the shelf life significantly.

Disclaimer:

This TDS, based on current knowledge and experience, contains a general summary of hazards and is consistent with the information provided by the supplier. No liability can be assumed for the accuracy and completeness of this information. The information in this TDS applies for this specific material only. It therefore does not apply for its usage in combination with other materials or ways of processing. It is user's responsibility to read and understand this information and incorporate it into individual safety programs, according to all legal and regulatory applicable procedures. Smart International gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the user shall determine the quality and suitability of the product. Smart International expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.