



Material Data Sheet

Product: Acrylonitrilebutadienestyrene	Base Material: FILM
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Description

Acrylonitrilebutadienestyrene (ABS) is a flame retardant V0 extrusion material for applications in blow molding and sheet extrusion for vacuum forming.

Typical Properties

<u>Mechanical Properties</u>	<u>Standard</u>	<u>Unit</u>	<u>Value</u>
Tensile Strength, yield, 50 mm/min	ISO 527	MPa	45
Tensile Strength, break, 50 mm/min	ISO 527	MPa	35
Tensile Strain, yield, 50 mm/min	ISO 527	%	3
Tensile Strain, break, 50 mm/min	ISO 527	%	10
Tensile Modulus, 1 mm/min	ISO 527	MPa	2350
Flexural Modulus, 2 mm/min	ISO 178	MPa	2400
<u>Thermal Properties</u>			
CTE, 23 °C to, 60 °C, flow	ISO 11359-2	1/°C	8.E-05
<u>Physical Properties</u>			
Density	ISO 1183	g/cm ³	1.18
Water Absorption, (23 °C / sat)	ISO 62	%	1
Moisture Absorption (23 °C / 50% RH)	ISO 62	%	0.2
<u>Electrical Properties</u>			
Volume Resistivity	IEC 60093	Ohm-cm	>1.E+15
Surface Resistivity, ROA	IEC 60093	Ohm	>1.E+15
Relative Permittivity, 1 MHz	IEC 60250	-	2.6
Dissipation Factor, 1 MHz	IEC 60250	-	0.008
<u>Flame Characteristics</u>			
UL Recognized, 94V-0 Flame Class Rating (3)	UL 94	mm	1.5
Oxygen Index (LOI)	ISO 4589	%	27

The information presented in this publication is believed to be accurate and is not intended to constitute a specification. The values given reflect average material characteristics and may vary slightly between base suppliers. Users should evaluate the material to determine the suitability for their own particular application.

Base on terms and conditions

Seller's only obligation shall be to replace such quantity of the product proven to be defective. Seller shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use, or inability to use the product for his/her use, and the user assumes all risk and liability whatsoever in connection therewith. The foregoing may not be changed, except by an agreement signed by an officer or seller. We hereby certify that goods covered by this quotation have been produced in compliance with the Fair Labor Standards Act of 1983, as amended. Any credit memos to purchaser shall expire if not used within one year from date of credit memo.