

## Technical Data Sheet



# ALCOM CFX ASA 5010 WP 16014 SV1019-16MC

Base Polymer	Acrylonitrile/Styrene/Acrylate/Copolymer
Filler/Additive System	10 % PTFE
Colour	metallic effect
Special Features	improved sliding / wear, low tendency to flow lines
Market Segment	Machinery
Application Area	injection moulded parts
Typical Applications	bearings and sliding elements

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-4 h 80 °C in an air circulating dryer for 3-6 h dependant on moisture content
Processing Injection Moulding	melt temperature 240-280 °C mould temperature 40-80 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
<b>Mechanical Properties</b>			
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress (3.5% Strain)	62	MPa	ISO 178
Tensile Modulus	2200	MPa	ISO 527
Tensile Stress at Yield	41	MPa	ISO 527
Tensile Elongation at Yield	2.7	%	ISO 527
Tensile Elongation at Break	15	%	ISO 527
Impact Strength (Charpy, 23°C)	50	kJ/m <sup>2</sup>	ISO 179/1eU
Impact Strength (Charpy, -40°C)	35	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	6	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	2	kJ/m <sup>2</sup>	ISO 179/1eA
Ball Indentation Hardness H358/30	84	MPa	ISO 2039-1
<b>Thermal Properties</b>			
Vicat B50	92	°C	ISO 306
HDT / A (1,8 MPa)	87	°C	ISO 75-1/-2
<b>Rheological Properties</b>			
Melt Index (MVR)	25	cm <sup>3</sup> /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (lengthwise, 24h)	0.5 - 0.7	%	ISO 294-4
Shrinkage (lateral, 24h)	0.4 - 0.6	%	ISO 294-4
<b>Physical Properties</b>			
Density	1140	kg/m <sup>3</sup>	ISO 1183