

Technical Data Sheet

Schulamid 612 FS5104 BLK968001



Polyamide 612

Product Description

Impact modified Polyamide 612 with electrical neutral heat stabilization system for extrusion applications. Heat stabilization system with very low halogen content (<30 ppm).

Processing Method Extrusion

Attribute Fuel Resistant; Good Chemical Resistance; Good Corrosion Resistance; Good Dimensional Stability; Good Heat Aging Resistance; High Impact Resistance; Low Temperature Toughness; Low to No Water Absorption; Oil Resistant

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (275 °C/10.0 kg)	12	cm ³ /10 min	ISO 1133
Density, (Method A)	1.01	g/cm ³	ISO 1183
Mechanical			
Nominal Tensile Strain at Break			
(50 mm/min, Type 1A) - Conditioned	>270	%	ISO 527-2
(50 mm/min, Type 1A)	>200	%	ISO 527-2
Flexural Modulus	980	MPa	ISO 178
Tensile Stress at Break			
(Type 1A, 50 mm/min)	37.0	MPa	ISO 527-2
(Type 1A, 50 mm/min) - Conditioned	38.0	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	1100	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	460	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	98	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	110	kJ/m ²	ISO 179
(-40 °C, Type 1, Edgewise, Notch A)	61	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	No Break		ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	No Break		ISO 179
(-40 °C, Type 1, Edgewise)	No Break		ISO 179
Hardness			
Ball Indentation Hardness, (H 132/30)	59.0	MPa	ISO 2039-1
Thermal			

