Technical Data Sheet

Schulamid 612 HV H 5003 BLK968001

Polyamide 612

Product Description

High impact modified Polyamide 612 with heat stabilization and hydrolyse resistance

Processing Method	Extrusion; Injection Molding
Attribute	Impact Modified

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.01	g/cm³	ISO 1183
Mechanical			
Nominal Tensile Strain at Break			
(50 mm/min, Type 1A) - Conditioned	>250	%	ISO 527-2
(50 mm/min, Type 1A)	>200	%	ISO 527-2
Tensile Stress at Break			
(Type 1A, 50 mm/min)	40.0	MPa	ISO 527-2
(Type 1A, 50 mm/min) - Conditioned	30.0	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	1200	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	320	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	110	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	110	kJ/m²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	No Break		ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	No Break		ISO 179
(-30 °C, Type 1, Edgewise)	No Break		ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	No Break		ISO 179
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	100	°C	ISO 306
(A (10N), 50 °C/h)	200	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	70.0	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	55.0	°C	ISO 75-2/A
Electrical			
Comparative Tracking Index (CTI), (Solution A)	550	V	IEC 60112

Flammable			
Burning Rate	30	mm/min	ISO 3795
Glow Wire Flammability Index			
(1.5 mm)	725	°C	IEC 60695-2-12
(3.0 mm)	725	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			
(1.5 mm)	750	°C	IEC 60695-2-13
(3.0 mm)	750	°C	IEC 60695-2-13
UL Information			
Flammability Classification			
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 mm)	HB		IEC 60695-11-10, -20