

SCHULAMID® 612 FS 4003

Polyamide 612
A. Schulman Europe

Message:
Unfilled heat stabilizat nylon 612 compound

General Information				
Features		Thermal Stability		
Processing Method		Extrusion		
		Injection molding		
Resin ID (ISO 1043)		PA612		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.04	--	g/cm ³	ISO 1183/A
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1750	750	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	46.0	34.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	5.0	25	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	> 100	> 300	%	ISO 527-2/1A/50
Flexural Modulus ¹	1250	--	MPa	ISO 178
Flexural Stress ²	52.0	--	MPa	ISO 178
Flexural Strain at Flexural Strength	8.00	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	30	--	kJ/m ²	ISO 179/1eA
23°C	98 kJ/m ²	No Break		ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	--		ISO 179/1eU
23°C	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	145	--	°C	ISO 75-2/Bf
1.8 MPa, not annealed	60.0	--	°C	ISO 75-2/ Af
Vicat Softening Temperature				
--	200	--	°C	ISO 306/A50
--	140	--	°C	ISO 306/B50

Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (2.00 mm)	< 20	--	mm/min	ISO 3795
Flammability Classification				IEC 60695-11-10, -20
1.50 mm	HB	--		IEC 60695-11-10, -20
3.00 mm	HB	--		IEC 60695-11-10, -20
Glow Wire Flammability Index				IEC 60695-2-12
1.50 mm	725	--	°C	IEC 60695-2-12
3.00 mm	725	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature				IEC 60695-2-13
1.50 mm	750	--	°C	IEC 60695-2-13
3.00 mm	750	--	°C	IEC 60695-2-13

Additional Information

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ISO 1874-PA 612-EAGHLW-18-020-NDIN73378-PA 612-HIHL

NOTE

1. 2.0 mm/min
2. 2.0 mm/min

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