SCHULAMID® 612 FS 4004

Polyamide 612

A. Schulman Europe

Message:

High impact modified Polyamide 612 with very good long term heat stabilization

General Information	
Features	Impact modification
Processing Method	Extrusion
	Injection molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.01	--	g/cm³	ISO 1183/A
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1100	590	MPa	ISO 527-2/1A/1
Tensile Stress				ISO 527-2/1A/50
Yield	35.0	27.0	MPa	ISO 527-2/1A/50
Fracture	38.0	35.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	29	36	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	> 250	> 250	%	ISO 527-2/1A/50
Flexural Modulus [1]	1000	--	MPa	ISO 178
Flexural Stress [2]				ISO 178
3.5% strain	35.0	--	MPa	ISO 178
7.0% strain	44.0	--	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	40	--	kJ/m²	ISO 179/1eA
-30°C	70	--	kJ/m²	ISO 179/1eA
23°C	110	120	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-40°C	No Break	--		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	60.0	--	°C	ISO 75-2/Bf
1.8 MPa, not annealed	45.0	--	°C	ISO 75-2/Af

Vicat Softening Temperature				
--	200	--	°C	ISO 306/A50
--	110	--	°C	ISO 306/B50
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	30	--	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
干燥 ISO 1874-PA 612-EAGHLW-18-010-NDIN73378-PA 612-HIHL

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

Recommended distributors for this material

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