

SCHULAMID® 612 FS 5003 MC

Polyamide 612
A. Schulman Europe

Message:
High impact modified Polyamide 612 with heat stabilization

General Information				
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
Melt Volume-Flow Rate (MVR) (245°C/5.0 kg)	15.0	--	cm ³ /10min	ISO 1133
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1900	830	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	50.0	35.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	5.5	22	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	35	300	%	ISO 527-2/1A/50
Flexural Modulus ¹	1500	--	MPa	ISO 178
Flexural Stress ²				ISO 178
3.5% Strain	48.0	--	MPa	
7.1% Strain	61.0	--	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	22	--	kJ/m ²	
-30°C	25	--	kJ/m ²	
23°C	75	120	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-40°C	No Break	--		
-30°C	No Break	--		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	108	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	90.0	--	°C	ISO 75-2/Af

Vicat Softening Temperature				
--	205	--	°C	ISO 306/A50
--	146	--	°C	ISO 306/B50
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (2.00 mm)	20	--	mm/min	ISO 3795
Glow Wire Flammability Index				IEC 60695-2-12
1.50 mm	675	--	°C	
3.00 mm	675	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
1.50 mm	700	--	°C	
3.00 mm	700	--	°C	
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			

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