

SCHULAMID® 66 GRF 2318 H

Polyamide 66
A. Schulman Europe

Message:
23% glass fibre and graphite reinforced Polyamide 66 with optimized wear and friction behaviour

General Information				
Filler / Reinforcement		Glass\Graphite,23% Filler by Weight		
Features		Good Heat Aging Resistance		
		Good Processability		
		Low Warpage		
		Lubricated		
		Oil Resistant		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.30	--	g/cm ³	ISO 1183/A
Water Absorption (Saturation, 23°C)	2.2	--	%	ISO 62
Viscosity Number	145	--	cm ³ /g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	180	110	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7500	4800	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	140	85.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	8.0	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.0	--	kJ/m ²	
23°C	7.0	8.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	--	kJ/m ²	
23°C	45	70	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	> 250	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/ Af

Vicat Softening Temperature				
--	> 250	--	°C	ISO 306/A50
--	245	--	°C	ISO 306/B50
Ball Pressure Test (110°C)	Pass	--		IEC 60695-10-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	> 1.0E+15	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	> 1.0E+10	ohms·cm	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (2.00 mm)	< 100	--	mm/min	ISO 3795
Flammability Classification				IEC 60695-11-10, -20
1.50 mm	HB	--		
3.00 mm	HB	--		
Glow Wire Flammability Index				IEC 60695-2-12
1.50 mm	--	650	°C	
3.00 mm	--	650	°C	

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