

SCHULAMID® 6 MKF 4015

Polyamide 6
A. Schulman Europe

Message:
40% glass fiber and mineral reinforced Polyamide 6 with high tensile strain at break and high dimension stability

General Information				
Filler / Reinforcement		Glass\Mineral,40% Filler by Weight		
Features		Balanced Stiffness/Toughness		
		Good Processability		
		Low Warpage		
		Oil Resistant		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.45	--	g/cm ³	ISO 1183/A
Water Absorption (Saturation, 23°C)	1.9	--	%	ISO 62
Viscosity Number	145	--	cm ³ /g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	205	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7000	4500	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	110	70.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.0	3.0	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	8.0	kJ/m ²	
23°C	8.0	13	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	60	kJ/m ²	
23°C	50	75	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	210	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	180	--	°C	ISO 75-2/Af
Vicat Softening Temperature				

--	215	--	°C	ISO 306/A50
--	210	--	°C	ISO 306/B50
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
Comparative Tracking Index	400	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	--	< 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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