SCHULAMID® 6 GF 15 H

PA6-GF15 LyondellBasell Industries

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.4 / ***	%	ISO 294-4, 2577
Molding shrinkage, normal	**1.2 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**5800 / 3000**	MPa	ISO 527
Stress at break	**120 / 70**	MPa	ISO 527
Strain at break	**3.5 / 15**	%	ISO 527
Flexural modulus, 23°C	**4300 / -**	MPa	ISO 178
Flexural strength	**170 / -**	MPa	ISO 178
Charpy impact strength, +23°C	**45 / N**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**40 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**7 / 15**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**5 / -**	kJ/m²	ISO 179/1eA
Ball indentation hardness	**174 / -**	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**200 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**210 / ***	°C	ISO 75-1/-2
Vicat softening temperature, A	**215 / ***	°C	ISO 306
Vicat softening temperature, B	**210 / ***	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	**HB / ***	class	IEC 60695-11-10
Thickness tested	**1.5 / ***	mm	-
Burning behav. at thickness h	**HB / ***	class	IEC 60695-11-10
Thickness tested	**0.8 / ***	mm	-
Burning rate, FMVSS, Thickness 1 mm	**43**	mm/min	ISO 3795 (FMVSS 302)
Glow Wire Flammability Index (GWFI)	**675**	°C	IEC 60695-2-12
GWFI - thickness tested (1)	**1.5**	mm	-
Glow Wire Flammability Index (GWFI)	**675**	°C	IEC 60695-2-12
GWFI - thickness tested (2)	**3**	mm	-
Glow Wire Ignition Temperature (GWIT)	**700**	°C	IEC 60695-2-13
GWIT - thickness tested (1)	**1.5**	mm	-
Glow Wire Ignition Temperature (GWIT)	**700**	°C	IEC 60695-2-13
GWIT - thickness tested (2)	**3**	mm	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Volume resistivity	**1E13 / 1E10**	Ohm*m	IEC 62631-3-1
Surface resistivity	*** / 1E12**	Ohm	IEC 62631-3-2

Other properties	dry / cond	Unit	Test Standard
Density	**1230 / -**	kg/m³	ISO 1183

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	**145 / ***	cm³/g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**3 - 4**	h	-
Processing humidity	**≤0.1**	%	-
Melt temperature	**250 - 280**	°C	-
Mold temperature	**60 - 100**	°C	-

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Characteristics

Processing
Injection Molding

Applications
Automotive

Special Characteristics
Heat stabilized or stable to heat

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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