

# Akulon® Ultraflow K-FKMV5 /C PA6-MD25

25% Mineral Reinforced, Flame Retardant (halogen free), High Flow

Print Date: 2018-12-13

Properties	Typical Data	Unit	Test Method
<b>Rheological properties</b>			
	dry / cond		
Molding shrinkage (parallel)	0.6 / *	%	ISO 294-4
Molding shrinkage (normal)	0.8 / *	%	ISO 294-4
<b>Mechanical properties</b>			
	dry / cond		
Tensile modulus	6200 / -	MPa	ISO 527-1/-2
Stress at break	65 / -	MPa	ISO 527-1/-2
Strain at break	1.8 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	25 / 20	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	25 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	2 / 2	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	2 / -	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
	dry / cond		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	110 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	205 / *	°C	ISO 75-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10
Glow Wire Flammability Index GWFI	960 / -	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	1.5 / -	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	960 / -	°C	IEC 60695-2-12

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GWFI (Thickness (2) tested)	3 / -	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	725 / -	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	1.5 / -	mm	IEC 60695-2-13
<b>Electrical properties</b>	<b>dry / cond</b>		
Volume resistivity	>1E13 / -	Ohm*m	IEC 60093
Surface resistivity	* / >1E15	Ohm	IEC 60093
Comparative tracking index	* / 600	V	IEC 60112
<b>Other properties</b>	<b>dry / cond</b>		
Water absorption	6.2 / *	%	Sim. to ISO 62
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1380 / -	kg/m <sup>3</sup>	ISO 1183