

# Akulon® K224-LPG6U

## PA6-I-GF33

Print Date: 2018-12-13

Properties	Typical Data	Unit	Test Method
<b>Rheological properties</b> dry / cond			
Molding shrinkage (parallel)	0.25 / *	%	ISO 294-4
Molding shrinkage (normal)	0.9 / *	%	ISO 294-4
<b>Mechanical properties</b> dry / cond			
Tensile modulus	9000 / 4500	MPa	ISO 527-1/-2
Stress at break	125 / 70	MPa	ISO 527-1/-2
Strain at break	3.5 / 8	%	ISO 527-1/-2
Flexural modulus	7500 / -	MPa	ISO 178
Flexural strength	200 / -	MPa	ISO 178
Charpy impact strength (+23°C)	105 / 100	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	115 / 95	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	35 / 40	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	20 / 17	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)	200 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	215 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.2 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.65 / *	E-4/°C	ISO 11359-1/-2
<b>Other properties</b> dry / cond			
Water absorption	5.7 / *	%	Sim. to ISO 62

Property Data

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Properties	Typical Data	Unit	Test Method
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1340 / *	kg/m <sup>3</sup>	ISO 1183