

**SPESIN® KP515FLBL**

PBT

Kolon Industries

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.017</b>	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Strength	<b>50</b>	MPa	ISO 527
Flexural modulus, 23°C	<b>2000</b>	MPa	ISO 178
Charpy notched impact strength, +23°C	<b>7</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<b>ASTM Data</b>			
Tensile Strength	<b>53.9</b>	MPa	ASTM D 638
Flexural Modulus	<b>1961</b>	MPa	ASTM D 790
Flexural Strength	<b>85</b>	MPa	ASTM D 790
Rockwell Hardness	<b>R 114</b>	-	ASTM D 785
Izod Impact notched, 1/8 in	<b>54</b>	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ISO Data</b>			
Melting temperature, 10°C/min	<b>224</b>	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	<b>60</b>	°C	ISO 75-1/-2
Burning behav. at thickness h	<b>HB</b>	class	IEC 60695-11-10
Thickness tested	<b>0.8</b>	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating	<b>HB</b>	-	UL 94
Thickness tested	<b>0.8</b>	mm	-
Coefficient of Thermal Expansion, MD	<b>40</b>	E-6/K	ASTM D 696
DTUL @ 66 psi	<b>150</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>60</b>	°C	ASTM D 648
Melting Temperature	<b>224</b>	°C	ASTM D 3418
<b>Electrical properties</b>			
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>27</b>	kV/mm	ASTM D 149
Dielectric Constant, 1 MHz	<b>3.7</b>	-	ASTM D 150
Arc Resistance	<b>110</b>	s	ASTM D 495
<b>Other properties</b>			
Density	<b>1400</b>	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	<b>0.08</b>	%	ASTM D 570
Density	<b>1400</b>	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Injection Molding</b>			
Pre-drying - Temperature	<b>100 - 120</b>	°C	-
Pre-drying - Time	<b>3 - 5</b>	h	-
Processing humidity	<b>≤0.02</b>	%	-
Mold temperature	<b>40 - 80</b>	°C	-
Zone 1	<b>245 - 255</b>	°C	-
Zone 2	<b>245 - 260</b>	°C	-
Zone 3	<b>245 - 260</b>	°C	-
Nozzle temperature	<b>250 - 265</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

High impact or impact modified, U.V. stabilized or stable to weather

**Delivery form**

Black

**Regional Availability**

North America, Asia Pacific