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Envalior Akulon S223-G4U

23% Glass Reinforced
Former DSM Engineering Plastics product line is now with Envalior.

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in³	ISO 1183
Water Absorption	7.0 %	7.0 %	Sim. ISO 62
Moisture Absorption	2.00 %	2.00 %	Humidity; Sim. ISO 62
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	ISO 527-1/-2
Tensile Modulus	7.40 GPa	1070 ksi	ISO 527-1/-2
Flexural Strength	215 MPa	31200 psi	ISO 178
Flexural Modulus	6.80 GPa	986 ksi	ISO 178
Charpy Impact Unnotched	4.00 J/cm² @Temperature 23.0 °C	19.0 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eU
	4.00 J/cm² @Temperature -30.0 °C	19.0 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	0.400 J/cm² @Temperature -30.0 °C	1.90 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eA
	0.600 J/cm² @Temperature 23.0 °C	2.86 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eA

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60250

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Dielectric Constant	3.3 @Frequency 1e+6 Hz	3.3 @Frequency 1e+6 Hz	IEC 60250
	3.7 @Frequency 100 Hz	3.7 @Frequency 100 Hz	IEC 60250
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
Dissipation Factor	0.011 @Frequency 100 Hz	0.011 @Frequency 100 Hz	IEC 60250
	0.018 @Frequency 1e+6 Hz	0.018 @Frequency 1e+6 Hz	IEC 60250

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-1/-2
Melting Point	260 °C	500 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	235 °C	455 °F	ISO 75-1/-2
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	IEC 60695-11-10
	HB @Thickness 0.710 mm	HB @Thickness 0.0280 in	IEC 60695-11-10