

## SABIC Innovative Plastics Cycloy® C4215HF PC+ABS (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Glass Fiber Filled , Polycarbonate (PC)

### Material Notes:

Cycloy C4215HF is a 15% glass reinforced, non-FR PC+ABS grade with high heat resistance, excellent strength and rigidity with good cosmetic appearance. It combines good processability with a low shrinkage. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Cycloy-C4215HF-PCABS-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-C4215HF-PCABS-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.60 % @Temperature 23.0 °C	0.60 % @Temperature 73.4 °F	ISO 62
Melt Flow	31 g/10 min @Load 5.00 kg, Temperature 260 °C	31 g/10 min @Load 11.0 lb, Temperature 500 °F	[cm <sup>3</sup> /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa	13800 psi	5 mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	5.55 GPa	805 ksi	1 mm/min; ISO 527
Flexural Modulus	4.70 GPa	682 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m <sup>2</sup> @Temperature -30.0 °C	3.33 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	80*10*4; ISO 180/1A
	8.00 kJ/m <sup>2</sup> @Temperature 23.0 °C	3.81 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	33.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	15.7 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1U
	37.0 kJ/m <sup>2</sup> @Temperature -30.0 °C	17.6 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	80*10*4; ISO 180/1U
	3.80 J/cm <sup>2</sup>	18.1 ft-lb/in <sup>2</sup>	Edgew 80*10*3 sp=62mm; ISO

Charpy Impact Unnotched Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	179/1eU Comments
	4.40 J/cm <sup>2</sup> @Temperature -30.0 °C	20.9 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	Edgew 80*10*3 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm <sup>2</sup> @Temperature -30.0 °C	3.33 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	V-notch Edgew 80*10*3 sp=62mm; ISO 179/1eA
	0.900 J/cm <sup>2</sup> @Temperature 23.0 °C	4.28 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	V-notch Edgew 80*10*3 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	129 °C	264 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	136 °C	277 °F	Rate B/50; ISO 306
	137 °C	279 °F	Rate B/120; ISO 306

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