



October, 2016

Z-215-G1

■ Product Summary: Z-215-G1 is a 15% glass fiber reinforced super tough PPS compound with ultra-high viscosity and expansibility for blow molding.

■ Color: Black

Engineering Properties of Z-215-G1

Engineering Properties of 2-213-61			
Properties	Test Method	Unit	Z-215-G1
General Information			GF15% Blow molding
Physical			
Density Water absorption, 23°C/24Hrs. Mold shrinkage ^a Mechanical	ISO 1183 ISO 62 ISO 294-4	g/cm³ % %	1.39 0.03 0.8/0.9
Tensile strength Tensile modulus Tensile strain at break Flexural strength Flexural modulus Flexural strain at break Charpy impact strength, notched unnotched Co-eff. of friction b, static/dynamic	ISO 527-1,2 ISO 527-1,2 ISO 527-1,2 ISO 178 ISO 178 ISO 178 ISO 179/1eA ISO 179/1eU	MPa GPa % MPa GPa % kJ/m² kJ/m²	100 6.0 3.0 170 5.5 4.5
Thermal			
Heat deflection temperature, 1.80MPa Co-eff. of linear thermal expansion ^a , -50~50 °C Co-eff. of linear thermal expansion ^a , 100~200 °C Flammability ^o /thickness (mm)	ISO 75-1,2 ISO 11359-2 ISO 11359-2 UL-94	°C x 10 ⁻⁵ /K x 10 ⁻⁵ /K -	165 2.5/7.5 2.0/15.0 -
Electrical			
Dielectric strength, t=1.0mm Dielectric constant, 1MHz Dissipation factor, 1MHz Comparative Tracking Index (CTI) Volume resistivity	IEC 60243-1 IEC 60250 IEC 60250 IEC 60112 IEC 60093	kV/mm - - V Ω·cm	28 4 0.007 200 10 ¹⁶
Molding Condition			
Cylinder temperature Mold temperature	-	°C °C	290-320 130-150

a: Flow direction/Transverse direction

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b: P=150kPa, V=0.3m/s, PPS vs. carbon steel

c: UL file No. E53829