Color & Comfort

DIC.PPS
Polyphenylene Sulfide

August, 2023

Z-200-XP

■ **Product Summary: Z-200-XP is an unfilled, impact modified, extrusion grade designed for uses in pipe and tube applications.**

■ **Color: Black**

Engineering Properties of Z-200-XP

Properties	Test Method	Unit	Z-200-XP
General Information			Unreinforced Extrusion
Physical			
Density	ISO 1183	g/cm³	1.23
Water absorption, 23˚C/24hrs.	ISO 62	%	0.06
Mold shrinkage [a]	ISO 294-4	%	-/-
Mechanical			
Tensile strength	ISO 527-1,2	MPa	45
Tensile modulus	ISO 527-1,2	GPa	2.0
Tensile strain at break	ISO 527-1,2	%	100
Flexural strength	ISO 178	MPa	65
Flexural modulus	ISO 178	GPa	1.7
Flexural strain at yield	ISO 178	%	6.7
Charpy impact strength,			
notched	ISO 179/1eA	kJ/m²	58
unnotched	ISO 179/1eU	kJ/m²	NB
Co-eff. of friction [b], static/dynamic	-	-	-/-
Thermal			
Heat deflection temperature, 1.80MPa	ISO 75-1,2	˚C	105
Co-eff. of linear thermal expansion [a], -50~50 ˚C	ISO 11359-2	x 10^{-5}/K	8.0/10.5
Co-eff. of linear thermal expansion [a], 100~200 ˚C	ISO 11359-2	x 10^{-5}/K	14.0/15.5
Flammability [c]/thickness (mm)	UL-94	-	-
Electrical			
Dielectric strength, t=1.0mm	IEC 60243-1	kV/mm	28
Dielectric constant, 1MHz	IEC 62631-2-1	-	4
Dissipation factor, 1MHz	IEC 62631-2-1	-	0.004
Comparative Tracking Index (CTI)	IEC 60112	V	150
Volume resistivity	IEC 60093	Ω･cm	10^{15}
Molding Condition			
Barrel temperature	-	˚C	280-310
Die temperature	-	˚C	270-300

a: Flow direction/Transverse direction
b: P=150kPa, V=0.3m/s, PPS vs. carbon steel
c: UL file No. E53829

DIC Corporation