LNP™ COLORCOMP™ Compound 9X02694J

PPSU — Saudi Basic Industries Corporation (SABIC)

Product Texts

COLORCOMP 9X02694J compound is based on Polyphenylsulfone (PPSU). Added features of this grade include High Heat Resistance, Healthcare, Low Extractable.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	**14.5**	g/10min	ASTM D 1238
Temperature	**365**	°C	-
Load	**5**	kg	-
Mold Shrinkage, MD	**0.007**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	**2340**	MPa	ASTM D 638
Tensile Strength at Yield	**69.6**	MPa	ASTM D 638
Elongation at Yield	**7.2**	%	ASTM D 638
Elongation at Break	**90**	%	ASTM D 638
Flexural Modulus	**2410**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**690**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
Coefficient of Thermal Expansion, MD	**55**	E-6/K	ASTM D 696
DTUL @ 264 psi	**207**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	**0.37**	%	ASTM D 570
Water Absorption, Equilibrium	**1.1**	%	ASTM D 570
Density	**1290**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**150**	°C	-
Pre-drying - Time	**2.5**	h	-
Processing humidity	**≤0.05**	%	-
Melt temperature	**360 - 390**	°C	-
Mold temperature	**140 - 160**	°C	-
Back pressure	**0.3 - 0.7**	MPa	-

Characteristics

Processing
Injection Molding

Special Characteristics
Heat stabilized or stable to heat

Certifications
Food contact

Applications
Building Construction, Medical, Packaging

Regional Availability
North America, Europe, Asia Pacific, South and Central America