INFINO XP-2165MC

PPS-(GF+MF) — Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**80**	g/10min	ISO 1133
Temperature	**316**	°C	-
Load	**5**	kg	-
Molding shrinkage, parallel	**0.5**	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	**80**	g/10min	ASTM D 1238
Temperature	**316**	°C	-
Load	**5**	kg	-
Mold Shrinkage, MD	**0.005**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**10700**	MPa	ISO 527
Yield stress	**150**	MPa	ISO 527
Stress at break	**188**	MPa	ISO 527
Strain at break	**2**	%	ISO 527
Flexural modulus, 23°C	**18000**	MPa	ISO 178
Flexural strength	**240**	MPa	ISO 178
Izod notched impact strength, +23°C	**5**	kJ/m²	ISO 180/1A
Rockwell hardness	**R 121**	-	ISO 2039-2
ASTM Data			
Tensile Modulus	**15000**	MPa	ASTM D 638
Tensile Strength at Yield	**150**	MPa	ASTM D 638
Tensile Strength at Break	**160**	MPa	ASTM D 638
Elongation at Break	**1.5**	%	ASTM D 638
Flexural Modulus	**18000**	MPa	ASTM D 790
Flexural Strength	**200**	MPa	ASTM D 790
Rockwell Hardness	**R 121**	-	ASTM D 785
Izod Impact notched, 1/8 in	**59**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**272**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**285**	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	**V-0**	class	IEC 60695-11-10
Thickness tested	**1.6**	mm	-
Burning behav. 5V at thickness h	**5VA**	class	IEC 60695-11-20
Thickness tested	**1.6**	mm	-
ASTM Data			
UL 94 Flame rating	**V-0**	-	UL 94
Thickness tested	**1.6**	mm	-
DTUL @ 66 psi	**284**	°C	ASTM D 648
DTUL @ 264 psi	**270**	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dissipation Factor, 1 MHz	**0.007**	-	ASTM D 150
Dielectric Constant, 1 MHz	**5**	-	ASTM D 150
Volume Resistivity	**1E17**	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water absorption	**0.02**	%	Sim. to ISO 62
Density	**1960**	kg/m³	ISO 1183
Density	**1960**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**4 - 6**	h	-
Processing humidity	**≤0.05**	%	-
Melt temperature	**310**	°C	-
Mold temperature	**120 - 150**	°C	-
Zone 1	**280 - 290**	°C	-
Zone 2	**290 - 300**	°C	-
Zone 3	**310 - 320**	°C	-
Nozzle temperature	**330**	°C	-
Screw speed	**50 - 150**	rpm	-
Back pressure	**0.5 - 2**	MPa	-

Characteristics

Processing
Injection Molding

Applications
Automotive

Delivery form
Pellets, Natural Color

Regional Availability
North America, Europe, Asia Pacific