

**GPPS 15NF(I)**

PS

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>10</b>	g/10min	ASTM D 1238
Temperature	<b>200</b>	°C	-
Load	<b>5</b>	kg	-
Mold Shrinkage, MD	<b>0.006</b>	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Modulus	<b>2855</b>	MPa	ASTM D 638
Tensile Strength at Yield	<b>46.1</b>	MPa	ASTM D 638
Elongation at Break	<b>4</b>	%	ASTM D 638
Flexural Modulus	<b>3257</b>	MPa	ASTM D 790
Flexural Strength	<b>84.4</b>	MPa	ASTM D 790
Rockwell Hardness	<b>R 121</b>	-	ASTM D 785
Izod Impact notched, 1/4 in	<b>9.8</b>	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	<b>9.8</b>	J/m	ASTM D 256
Temperature	<b>-30</b>	°C	-

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	<b>HB</b>	-	UL 94
Thickness tested	<b>1.6</b>	mm	-
DTUL @ 66 psi	<b>93</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>87</b>	°C	ASTM D 648
Vicat Temperature	<b>95</b>	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	<b>1040</b>	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	<b>80</b>	°C	-
Pre-drying - Time	<b>2 - 4</b>	h	-
Processing humidity	<b>≤0.01</b>	%	-
Melt temperature	<b>190 - 220</b>	°C	-
Mold temperature	<b>40 - 70</b>	°C	-
Zone 1	<b>170 - 190</b>	°C	-
Zone 2	<b>180 - 200</b>	°C	-
Zone 3	<b>190 - 210</b>	°C	-
Nozzle temperature	<b>190 - 220</b>	°C	-
Screw speed	<b>30 - 60</b>	rpm	-
Back pressure	<b>30 - 60</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Heat stabilized or stable to heat, Transparent

**Certifications**

Food contact

**Applications**

Packaging, Refrigeration

**Regional Availability**

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