GPPS 20HR(E)

PS LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	**6**	g/10min	ASTM D 1238
Temperature	**200**	°C	-
Load	**5**	kg	-
Mold Shrinkage, MD	**0.006**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	**2865**	MPa	ASTM D 638
Tensile Strength at Yield	**47.1**	MPa	ASTM D 638
Elongation at Break	**4**	%	ASTM D 638
Flexural Modulus	**3237**	MPa	ASTM D 790
Flexural Strength	**94.2**	MPa	ASTM D 790
Rockwell Hardness	**R 121**	-	ASTM D 785
Izod Impact notched, 1/4 in	**9.8**	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	**9.8**	J/m	ASTM D 256
Temperature	**-30**	°C	-

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	**HB**	-	UL 94
Thickness tested	**1.6**	mm	-
DTUL @ 66 psi	**93**	°C	ASTM D 648
DTUL @ 264 psi	**86**	°C	ASTM D 648
Vicat Temperature	**94**	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	**1050**	kg/m³	ASTM D 792

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

Characteristics

Processing
Injection Molding, Coating

Applications
Electrical and Electronical, Packaging

Special Characteristics
Heat stabilized or stable to heat, Transparent

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

Certifications
Food contact