

# LUPOY PC 1200HP-15

PC

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	15	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ASTM Data</b>			
Tensile Modulus	2340	MPa	ASTM D 638
Tensile Strength at Yield	60	MPa	ASTM D 638
Tensile Strength at Break	71	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	150	%	ASTM D 638
Flexural Modulus	2410	MPa	ASTM D 790
Flexural Strength	96	MPa	ASTM D 790
Rockwell Hardness	M 72	-	ASTM D 785
Izod Impact notched, 1/8 in	850	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ISO Data</b>			
Burning behav. at 1.5 mm nom. thickn.	V-2	class	IEC 60695-11-10
Thickness tested	1.6	mm	-
Yellow Card available	yes	-	-
Glow Wire Ignition Temperature (GWIT)	850	°C	IEC 60695-2-13
GWIT - thickness tested (1)	2	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating	V-2	-	UL 94
Thickness tested	0.5	mm	-
Coefficient of Thermal Expansion, MD	68	E-6/K	ASTM D 696
DTUL @ 66 psi	143 <sup>[ann.]</sup>	°C	ASTM D 648
DTUL @ 264 psi	127	°C	ASTM D 648
Vicat Temperature	148	°C	ASTM D 1525
Limiting Oxygen Index	26	%	ASTM D 2863
ann.: annealed			
<b>Electrical properties</b>			
<b>ISO Data</b>			
Comparative tracking index	250	-	IEC 60112
<b>ASTM Data</b>			
Dielectric Strength, Short Time	17	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	0.001	-	ASTM D 150
Dielectric Constant, 60 Hz	3	-	ASTM D 150
Volume Resistivity	2E17	Ohm*cm	ASTM D 257
<b>Optical properties</b>			
<b>ASTM Data</b>			
Haze	1.1	%	ASTM D 1003
Light Transmittance	89	%	ASTM D 1003
Index of Refraction	1.59	-	ASTM D 542
<b>Other properties</b>			
Water Absorption, 24hr	0.15	%	ASTM D 570
Water Absorption, Equilibrium	0.32	%	ASTM D 570
Density	1200	kg/m <sup>3</sup>	ASTM D 792

**Characteristics**

**Processing**

Injection Molding, Other Extrusion

**Applications**

Packaging

**Special Characteristics**

High impact or impact modified, Heat stabilized or stable to heat, Transparent

**Regional Availability**

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

**Certifications**

Food contact, Food approval FDA 21 CFR