PRL PC-UV3-D(f1)

PC Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	**17**	g/10min	ASTM D 1238
Temperature	**300**	°C	-
Load	**1.2**	kg	-
Mold Shrinkage, MD	**0.006**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	**62.1**	MPa	ASTM D 638
Tensile Strength at Break	**68.9**	MPa	ASTM D 638
Elongation at Yield	**6**	%	ASTM D 638
Elongation at Break	**120**	%	ASTM D 638
Flexural Modulus	**2310**	MPa	ASTM D 790
Flexural Strength	**95.8**	MPa	ASTM D 790
Rockwell Hardness	**M70**	-	ASTM D 785
Izod Impact notched, 1/8 in	**694**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	**V-2**	-	UL 94
Thickness tested	**1.5**	mm	-
DTUL @ 66 psi	**132**	°C	ASTM D 648
DTUL @ 264 psi	**127**	°C	ASTM D 648
Vicat Temperature	**149**	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	**212**	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	**11.8**	kV/mm	ASTM D 149
Volume Resistivity	**1E15**	Ohm*cm	ASTM D 257
Arc Resistance	**150**	s	ASTM D 495

Optical properties	Value	Unit	Test Standard
ASTM Data			
Haze	**1**	%	ASTM D 1003
Light Transmittance	**88**	%	ASTM D 1003

Other properties	Value	Unit	Test Standard
Density	**1200**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**118 - 124**	°C	-
Pre-drying - Time	**3 - 4**	h	-
Melt temperature	**288 - 316**	°C	-
Mold temperature	**71.1 - 93.3**	°C	-
Zone 1	**260 - 282**	°C	-
Zone 2	**271 - 293**	°C	-
Zone 3	**282 - 304**	°C	-

Characteristics

Processing	Applications
Injection Molding	General Purpose

Delivery form
Pellets

Regional Availability
North America

Special Characteristics
High impact or impact modified, U.V. stabilized or stable to weather