

**Radel® R-5600**

PPSU

Syensqo

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Melt Flow Index, MFI	37	g/10min	ASTM D 1238
Temperature	365	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.007	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ASTM Data</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Tensile Modulus	2340	MPa	ASTM D 638
Tensile Strength	70.3	MPa	ASTM D 638
Elongation at Yield	7.2	%	ASTM D 638
Elongation at Break	90	%	ASTM D 638
Flexural Modulus	2340	MPa	ASTM D 790
Flexural Strength	91	MPa	ASTM D 790
Izod Impact notched, 1/8 in	690	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ASTM Data</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.76	mm	-
Coefficient of Thermal Expansion, MD	56	E-6/K	ASTM D 696
DTUL @ 264 psi	207	°C	ASTM D 648
Glass Transition Temperature	220	°C	ASTM E 1356
<b>Electrical properties</b>			
<b>ASTM Data</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Dielectric Strength, Short Time	15	kV/mm	ASTM D 149
Dielectric Constant, 60 Hz	3.44	-	ASTM D 150
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257
<b>Optical properties</b>			
<b>ASTM Data</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Index of Refraction	1.67	-	ASTM D 542
<b>Other properties</b>			
<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>	
Water Absorption, 24hr	0.37	%	ASTM D 570
Water Absorption, Equilibrium	1.1	%	ASTM D 570
Density	1290	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Injection Molding</b>			
<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>	
Pre-drying - Temperature	149	°C	-
Pre-drying - Time	2.5	h	-
Melt temperature	360 - 391	°C	-
Mold temperature	138 - 163	°C	-

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets

**Special Characteristics**

Flame retardant, Heat stabilized or stable to heat, Transparent, Sterilizable, Steam sterilization

**Features**

Thermal Stability

**Chemical Resistance**

Acid Resistance, Alkali Resistance, General Chemical Resistance, Environmental Stress Crack Resistance, Hydrolytically Stable

**Regional Availability**

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