

Technical Data Sheet

**Diamond POL051LCLEARNAT**



Polycarbonate

**Product Description**

*Diamond* POL051LCLEARNAT is a Polycarbonate material. Features include: Medium Viscosity.

**Attribute** Medium Viscosity

**Forms** Pellets

<b>Typical Properties</b>	<b>Nominal Value</b>	<b>Units</b>	<b>Test Method</b>
<b>Physical</b>			
Melt Flow Rate, (300 °C/1.2 kg)	15	g/10 min	ASTM D1238
Density - Specific Gravity	1.2	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>			
Tensile Elongation at Yield	110	%	ASTM D638
Tensile Strength at Yield	70	MPa	ASTM D638
Tensile Strength at Break	70	MPa	ASTM D638
Flexural Modulus	2700	MPa	ASTM D790
Tensile Elongation at Break	150	%	ASTM D638
Tensile Modulus	1800	MPa	ASTM D638
Flexural Strength	98	MPa	ASTM D790
<b>Impact</b>			
Notched Izod Impact	900	J/m	ASTM D256
<b>Hardness</b>			
Rockwell Hardness, (R-Scale)	121		ASTM D785
<b>Thermal</b>			
Deflection Temperature Under Load Unannealed (264 psi)	122	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	140	°C	ASTM D648