

Technical Data Sheet

Diamond POL051LCLEARNAT



Polycarbonate

Product Description

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

Attribute Medium Viscosity

Forms Pellets

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (300 °C/1.2 kg)	15	g/10 min	ASTM D1238
Density - Specific Gravity	1.2	g/cm ³	ASTM D792
Mechanical			
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
Impact			
Notched Izod Impact	900	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	121		ASTM D785
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	122	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	140	°C	ASTM D648