

# SKYPURA® 0502

## SK Chemicals - Polycyclohexylenedimethylene Terephthalate

### General Information

#### Product Description

SKPURA® 0302 is a Polycyclohexylenedimethylene terephthalate for LED reflectors.

#### General

Uses	• Compounding	• LEDs	• Reflectors
Processing Method	• Compounding	• Injection Molding	

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Intrinsic Viscosity	0.74	dl/g	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	212000	psi	ASTM D638
Tensile Strength (Yield)	7500	psi	ASTM D638
Tensile Strength (Break)	5960	psi	ASTM D638
Tensile Elongation (Yield)	6.5	%	ASTM D638
Flexural Modulus	236000	psi	ASTM D790
Flexural Strength	10100	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1.3	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	189	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	167	°F	ASTM D648
Glass Transition Temperature	194	°F	ASTM E1356
Vicat Softening Temperature	549	°F	ASTM D1525
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.8E+17	ohms	ASTM D257
Volume Resistivity	1.4E+19	ohms·cm	ASTM D257
Dielectric Strength	710	V/mil	ASTM D149
Dielectric Constant	4.01		ASTM D150
Dissipation Factor	5.1E-3		ASTM D150