



CoolPoly® E5127

Celanese Corporation - Polyphenylene Sulfide

Tuesday, November 5, 2019

General Information

General

Material Status	• Experimental: Active		
Availability	• Africa & Middle East	• Europe	• North America

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.61	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2.17E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	7110	psi	ISO 527-2/1A/5
Tensile Strain (Break)	0.35	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	2.20E+6	psi	ISO 178
Flexural Stress (73°F)	11700	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (73°F)	1.7	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Thermal Conductivity			ASTM E1461
-- ²	15	Btu·in/hr/ft ² /°F	
-- ³	89	Btu·in/hr/ft ² /°F	
-- ⁴	92	Btu·in/hr/ft ² /°F	

Notes

¹ Typical properties: these are not to be construed as specifications.

² Thruplane

³ Crossflow

⁴ Flow