



CoolPoly® E1203

Celanese Corporation - Polypropylene

Tuesday, November 5, 2019

General Information

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	444000	psi	ISO 527-2/1A
Tensile Stress (Break)	2760	psi	ISO 527-2/1A/5
Tensile Strain (Break)	1.8	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	545000	psi	ISO 178
Flexural Stress (73°F)	4640	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (73°F)	4.0	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Thermal Conductivity			ASTM E1461
-- ²	9.7	Btu·in/hr/ft ² /°F	
-- ³	44	Btu·in/hr/ft ² /°F	
-- ⁴	59	Btu·in/hr/ft ² /°F	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	9.7E+11	ohms·cm	IEC 60093

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	2.0 to 4.0	hr

Notes

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

² Thruplane

³ Crossflow

⁴ Flow