

# EMERGE™ PC 8980-6

## Advanced Resin

### Overview

EMERGE PC 8980 is a translucent, ignition-resistant polycarbonate. This resin contains halogen free flame retardant and is intended to comply with global environmental standards. It is designed for IR PC film and sheet extrusion.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.25 g/cm <sup>3</sup>	1.25 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	6.0 g/10 min	6.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus			ASTM D638
0.126 in (3.20 mm), Injection Molded	386000 psi	2660 MPa	
Tensile Strength			ASTM D638
Yield, 0.126 in (3.20 mm), Injection Molded	8700 psi	60.0 MPa	
Break, 0.126 in (3.20 mm), Injection Molded	9280 psi	64.0 MPa	
Tensile Elongation			ASTM D638
Break, 0.126 in (3.20 mm), Injection Molded	90 %	90 %	
Flexural Modulus			ASTM D790
0.126 in (3.20 mm), Injection Molded	399000 psi	2750 MPa	
Flexural Strength			ASTM D790
0.126 in (3.20 mm), Injection Molded	13100 psi	90.0 MPa	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.126 in (3.20 mm), Injection Molded	2.2 ft·lb/in	120 J/m	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed	266 °F	130 °C	
Vicat Softening Temperature	313 °F	156 °C	ASTM D1525 <sup>1</sup>
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.016 in (0.40 mm))	V-0	V-0	UL 94
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	248 °F	120 °C	
Drying Time	4.0 hr	4.0 hr	

### Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

<sup>1</sup> Rate B (120°C/h), Loading 1 (10 N)



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