

ColorFast® PC200UVR

Americhem - Polycarbonate

General Information
Product Description

PC200UVR is a high flow injection molding grade of polycarbonate (PC) with UV and mold release. It is suitable for a wide range of applications.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Mold Release • UV Stabilizer		
Features	• Excellent Colorability • Good Mold Release • Lubricated • UV Stabilized		
Uses	• Automotive Applications • Closures • Consumer Applications • Engineering Parts	• Household Goods • Housings • Industrial Applications • Industrial Parts	• Office Automation Equipment • Outdoor Applications
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	9400	psi	ASTM D638
Tensile Strength ² (Break)	10200	psi	ASTM D638
Tensile Elongation ² (Yield)	6.0	%	ASTM D638
Tensile Elongation ² (Break)	120	%	ASTM D638
Flexural Modulus ²	340000	psi	ASTM D790
Flexural Strength ²	14000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	14	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	70		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.250 in)	260	°F	ASTM D648
Optical	Nominal Value	Unit	Test Method
Light Transmittance (100.0 mil)	88.0	%	ASTM D1003

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	48	hr
Suggested Shot Size	40 to 60	%
Rear Temperature	480 to 520	°F
Middle Temperature	500 to 540	°F
Front Temperature	520 to 560	°F



Nozzle Temperature	510 to 555 °F
Processing (Melt) Temp	520 to 560 °F
Mold Temperature	160 to 200 °F
Back Pressure	50.0 to 200 psi
Screw Speed	40 to 70 rpm
Vent Depth	1.0E-3 to 3.0E-3 in

Notes

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

² 2.0 in/min

