

Styron CALIBRE® 603 3 Polycarbonate, Branched

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Unreinforced, Flame Retardant

Material Notes:

CALIBRE® 603 is a branched polycarbonate resin and is equipped with a mold release and a UV stabilization package. CALIBRE 603 resins exhibit an excellent property balance of high clarity, high melt strength and impact resistance. The CALIBRE 603 resins have high zero-shear viscosity which allow extrusion of complex sheet structures for the building industry or extrusion blow molding of large products without sagging. Available Melt Flow Rates: 3, 5. Data provided by Dow Chemical. This product line was spun off from Dow Chemical to Styron in 2010.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-CALIBRE-603-3-Polycarbonate-Branched.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM Data
Melt Flow	3.0 g/10 min	3.0 g/10 min	ASTM Data
	@Load 1.20 kg, Temperature 300 °C	@Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	64.8 MPa	9400 psi	ASTM Data
Tensile Strength, Yield	65.5 MPa	9500 psi	ASTM Data
Elongation at Break	100 %	100 %	ASTM Data
Elongation at Yield	6.0 %	6.0 %	ISO Data
Tensile Modulus	2.21 GPa	321 ksi	ASTM Data
Izod Impact, Notched	8.54 J/cm	16.0 ft-lb/in	ASTM Data

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	127 °C	261 °F	Unannealed; ASTM Data
Vicat Softening Point	152 °C	306 °F	
Flammability, UL94	V-2	V-2	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Optical Properties	Metric	English	Comments
Haze	1.1 %	1.1 %	

Optical Properties	Metric	English	Comments
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