

CYCOLOY* CX7240U Resin

Acrylonitrile Butadiene Styrene + PC
SABIC Innovative Plastics Asia Pacific

Technical Data

Product Description

Cycoloy* CX7240U resin is an injection moldable PC/ABS blend with a UV stabilization package. It contains non-brominated and non-chlorinated flame retardant systems to meet thin wall flame resistance. Excellent flow and impact balance together with the thin wall flame resistance and all color options make Cycoloy CX7240U an ideal candidate for a wide variety of thin wall applications.

General

Additive	• Flame Retardant	• UV Stabilizer	
Features	• Bromine Free • Chlorine Free	• Flame Retardant • Good Flow	• Good Impact Resistance
Uses	• Thin-walled Parts		
Processing Method	• Injection Molding		

Physical

	Nominal Value Unit	Test Method
Specific Gravity		
--	1.19 g/cm³	ASTM D792
--	1.20 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)	16 g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	15.0 cm³/10min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.60 %	Internal Method
Water Absorption		ISO 62
Saturation, 23°C	0.20 %	
Equilibrium, 23°C, 50% RH	0.10 %	

Mechanical

	Nominal Value Unit	Test Method
Tensile Modulus		
-- ⁴	2950 MPa	ASTM D638
--	2530 MPa	ISO 527-2/1
Tensile Strength		
Yield ⁵	65.0 MPa	ASTM D638
Yield	65.0 MPa	ISO 527-2/50
Break ⁵	58.0 MPa	ASTM D638
Break	50.0 MPa	ISO 527-2/50
Tensile Elongation		
Yield ⁵	4.1 %	ASTM D638
Yield	4.0 %	ISO 527-2/50
Break ⁵	100 %	ASTM D638
Break	90 %	ISO 527-2/50
Flexural Modulus		
50.0 mm Span ⁶	2750 MPa	ASTM D790
-- ⁷	2500 MPa	ISO 178
Flexural Strength		
-- ^{7, 8}	96.0 MPa	ISO 178
Yield, 50.0 mm Span ⁶	104 MPa	ASTM D790

