

Technical Data Sheet

SCHULABLEND® (PC/ASA) M/MA 4201U

Polycarbonate + ASA
Engineering Plastics

Product Description

Schulablend M/MA 4201U is an UV stabilized PC/ASA alloy. Injection molding grade

General

Features	• Good Impact Resistance	• Weather Resistant
Processing Method	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.08	1.08 g/cm ³	ASTM D792A
Melt Mass-Flow Rate (MFR) (265°C/5.0 kg)	34 g/10 min	34 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹			ASTM D638
Yield	7010 psi	48.3 MPa	
Break	5520 psi	38.1 MPa	
Tensile Elongation ¹ (Break)	22 %	22 %	ASTM D638
Flexural Modulus - 1% Secant ²	345000 psi	2380 MPa	ASTM D790
Flexural Strength ² (Yield)	5130 psi	35.4 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
-4°F (-20°C)	1.4 ft·lb/in	75 J/m	
73°F (23°C)	4.0 ft·lb/in	210 J/m	
Instrumented Dart Impact			ASTM D3763
73°F (23°C), Total Energy	251 in·lb	28.4 J	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness	105	105	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	212 °F	100 °C	
264 psi (1.8 MPa), Unannealed	184 °F	84.7 °C	
Vicat Softening Temperature			
--	227 °F	108 °C	ASTM D1525 ³
--	209 °F	98.3 °C	ASTM D1525 ⁴
CLTE			ASTM E831
Flow	4.3E-5 in/in/°F	7.7E-5 cm/cm/°C	
Transverse	5.4E-5 in/in/°F	9.7E-5 cm/cm/°C	
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gardner Gloss (60°)	93	93	ASTM D523

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	212 °F	100 °C
Drying Time	4.0 hr	4.0 hr
Suggested Max Moisture	0.02 %	0.02 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	500 to 536 °F	260 to 280 °C
Mold Temperature	158 to 212 °F	70 to 100 °C

Notes

¹ 2.0 in/min (50 mm/min)

² 0.051 in/min (1.3 mm/min)

³ Rate A (50°C/h), Loading 1 (10 N)

⁴ Rate A (50°C/h), Loading 2 (50 N)