

Technical Data Sheet

SCHULABLEND[®] (PC/ASA) M/MA 5310U

Polycarbonate + ASA
Engineering Plastics

Product Description

Schulablend M/MA 5310U is an UV stabilized PC/ASA alloy. Injection molding grade

General

- | | | | |
|-------------------|--------------------------|------------------------|---------------------|
| Features | • Good Impact Resistance | • High Heat Resistance | • Weather Resistant |
| Processing Method | • Injection Molding | | |

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.18	1.18 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (265°C/5.0 kg)	53 g/10 min	53 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus ¹	303000 psi	2090 MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	6690 psi	46.1 MPa	
Break	6090 psi	42.0 MPa	
Tensile Elongation ² (Break)	64 %	64 %	ASTM D638
Flexural Modulus - 1% Secant ³	321000 psi	2210 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
-22°F (-30°C)	3.6 ft·lb/in	190 J/m	
73°F (23°C)	9.1 ft·lb/in	490 J/m	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	113	113	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	239 °F	115 °C	
264 psi (1.8 MPa), Unannealed	209 °F	98.1 °C	
Vicat Softening Temperature			
--	257 °F	125 °C	ASTM D1525 ⁴
--	239 °F	115 °C	ASTM D1525 ⁵
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 in (2.00 mm)	< 3.9 in/min	< 100 mm/min	ISO 3795
0.0787 in (2.00 mm)	< 3.9 in/min	< 100 mm/min	FMVSS 302

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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 0.039 in/min (1.0 mm/min)

² 2.0 in/min (50 mm/min)

³ 0.079 in/min (2.0 mm/min)

⁴ Loading 1 (10 N)

⁵ Loading 2 (50 N)