

Technical Data Sheet

Schulablend M/MA 6401 U GRY61425



Polycarbonate + ASA

Product Description

PC-ASA blend with increased impact strength, heat resistance and weather resistance. (Former name: SCHULABLEND WR5 UV)

Processing Method Injection Molding

Attribute Good Impact Resistance; Good Weather Resistance; High Heat Resistance

Resin ID PC+ASA UV

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (260 °C/5.0 kg)	28	cm ³ /10 min	ISO 1133
Density, (Method A)	1.20	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	58.0	MPa	ISO 527-2
Nominal Tensile Strain at Break, (50 mm/min, Type 1A)	60	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	2400	MPa	ISO 178
Tensile Strain at Yield, (Type 1A, 50 mm/min)	5.5	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 50 mm/min)	48.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	2300	MPa	ISO 527-1
Flexural Stress, (2.0 mm/min, 6.2%)	90.0	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	65	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	20	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	No Break		ISO 179
(-30 °C, Type 1, Edgewise)	No Break		ISO 179
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	135	°C	ISO 306
(A (10N), 50 °C/h)	140	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	125	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	110	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1

Surface Resistivity	>1.0E+15	ohm	IEC 60093
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795
UL Information			
Flammability Classification			
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 mm)	HB		IEC 60695-11-10, -20

Injection Parameters	Nominal	
	Value	Units
Drying Time	4.0 to 6.0	hr
Drying Temperature	100	°C
Suggested Max Moisture	0.02	%
Screw Speed	0.4	mm/sec
Processing (Melt) Temp	260 to 290	°C
Front Temperature	290	°C
Holding Pressure	30.0 to 75.0	MPa
Hopper Temperature	70	°C
Middle Temperature	270	°C
Rear Temperature	250	°C
Injection Rate	Fast	
Back Pressure	5.00 to 15.0	MPa
Mold Temperature	60 to 90	°C
Injection Pressure	80.0 to 150	MPa
Cushion	2.00 to 5.00	mm