

Technical Data Sheet

Polyman (ASA) E/MI 1010 H UV

Acrylonitrile Styrene Acrylate

LyondellBasell Industries

Engineering Plastics

Product Description

Impact and outdoor resistant ASA with increased heat resistance for extrusion and injection moulding

General

Features	• Good Impact Resistance	• High Heat Resistance
Processing Method	• Extrusion	• Injection Molding
Part Marking Code (ISO 11469)	• >ASA<	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.06 g/cm ³	1.06 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 Kg)	10 cm ³ /10min	10 cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Equilibrium, 73°F (23°C), 50% Rh	1.2 %	1.2 %	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	319000 psi	2200 MPa	ISO 527-1/1A/1
Tensile Stress (Yield)	6670 psi	46.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	3.5 %	3.5 %	ISO 527-2/1A/50

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	6.2 ft·lb/in ²	13 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C)	No Break	No Break	
Notched Izod Impact (Area) (73°F (23°C))	6.19 ft·lb/in ²	13.0 kJ/m ²	ASTM D256

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	13200 psi	91.0 MPa	ISO 2039-1

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	207 °F	97.0 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	181 °F	83.0 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	212 °F	100 °C	ISO 306/B50
--	234 °F	112 °C	ISO 306/A120

Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·m	> 1.0E+13 ohms·m	IEC 62631-3-1
Comparative Tracking Index	600 V	600 V	IEC 60112

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.06 In (1.6 Mm)	HB	HB	

Additional Information

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

Notes

These are typical property values not to be construed as specification limits.