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/cm³	1.06 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°c/10.0 Kg)	10 cm³/10min	10 cm³/10min	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/in²	13 kJ/m²	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/in²	13.0 kJ/m²	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.