

Technical Data Sheet

Polyman (ASA) WR/MI WHI 80390



Acrylonitrile Styrene Acrylate

Product Description

medium impact ASA grade with good weatherability

Processing Method Injection Molding

Resin ID ASA

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (220 °C/10.0 kg)	19	cm ³ /10 min	ISO 1133
Density, (Method A)	1.05	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	39.0	MPa	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	3.1	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	1800	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	17	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	5.0	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	No Break		ISO 179
(-30 °C, Type 1, Edgewise)	80	kJ/m ²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	82.0	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	93.0	°C	ISO 306
(A (10N), 50 °C/h)	102	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	82.0	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	71.0	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI)	600	V	IEC 60112
Surface Resistivity	>1.0E+15	ohm	IEC 60093
Flammable			

Glow Wire Flammability Index			
(1.5 mm)	675 °C		IEC 60695-2-12
(3.0 mm)	675 °C		IEC 60695-2-12
Glow Wire Ignition Temperature			
(1.5 mm)	700 °C		IEC 60695-2-13
(3.0 mm)	700 °C		IEC 60695-2-13
UL Information			
Flammability Classification			
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 mm)	HB		IEC 60695-11-10, -20
UL File Number	E86615		