

POLYMAN® (ASA) M/MI 2010

Acrylonitrile Styrene Acrylate

A. Schulman Europe

Message:

medium impact ASA grade with good weatherability for injection molding

General Information			
Processing Method	Injection molding		
Resin ID (ISO 1043)	ASA		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	16.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	87.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	43.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	3.2	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.0	kJ/m ²	ISO 179/1eA
23°C	11	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	69	kJ/m ²	ISO 179/1eU
23°C	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	84.0	°C	ISO 75-2/Bf
1.8 MPa, not annealed	72.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	103	°C	ISO 306/A50
--	91.0	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
1.50 mm	HB		IEC 60695-11-10, -20
3.00 mm	HB		IEC 60695-11-10, -20
Glow Wire Flammability Index			IEC 60695-2-12
1.50 mm	675	°C	IEC 60695-2-12
3.00 mm	675	°C	IEC 60695-2-12

Glow Wire Ignition Temperature			IEC 60695-2-13
1.50 mm	700	°C	IEC 60695-2-13
3.00 mm	700	°C	IEC 60695-2-13

Additional Information

- 1.)
- Not for use in food contact applications2.)
- Not for use in medical or pharmaceutical applications

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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