

POLYMAN® (ABS) HH 3 D

Acrylonitrile Butadiene Styrene

A. Schulman Europe

Message:

heat resistant ABS grade with high flow; also available as low emission grade

General Information			
Processing Method	Injection molding		
Resin ID (ISO 1043)	ABS		
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)	10.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	100	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	49.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	2.8	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m ²	ISO 179/1eA
23°C	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	27	kJ/m ²	ISO 179/1eU
23°C	70	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	109	°C	ISO 75-2/Bf
1.8 MPa, not annealed	104	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	116	°C	ISO 306/A50
--	108	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	ohms · cm	IEC 60093
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (1.50 mm)	HB		IEC 60695-11-10, -20
Glow Wire Flammability Index			IEC 60695-2-12

1.50 mm	650	°C	IEC 60695-2-12
3.00 mm	650	°C	IEC 60695-2-12

Additional Information

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

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