

POLYMAN® (ABS) M/TK

Acrylonitrile Butadiene Styrene

A. Schulman Europe

Message:

ABS standard grade with higher softening temperature

General Information			
UL YellowCard	E86615-100246664		
UL File Number	E86615		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	ABS		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	23.0	cm³/10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	105	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	52.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	2.5	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.0	kJ/m²	
23°C	15	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	80	kJ/m²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	96.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	92.0	°C	ISO 75-2/Af
Vicat Softening Temperature	98.0	°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
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
1.50 mm	HB		
3.00 mm	HB		

Glow Wire Flammability Index		IEC 60695-2-12
1.50 mm	650	°C
3.00 mm	650	°C

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