



POLYMAN® (ABS) M/TK Acrylonitrile Butadiene Styrene Engineering Plastics

Product Description

ABS standard grade with higher softening temperature

General			
Material Status	 Commercial: Active 		
Availability	Africa & Middle EastAsia Pacific	EuropeLatin America	
UL File Number	• E86615		
Processing Method	 Injection Molding 		
Resin ID (ISO 1043)	• ABS		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.05 g/cm³	1.05 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	1.40 in ³ /10min	23.0 cm ³ /10min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	363000 psi	2500 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	7540 psi	52.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	2.5 %	2.5 %	ISO 527-2/1A/50
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	3.3 ft·lb/in²	7.0 kJ/m²	
73°F (23°C)	7.1 ft·lb/in²	15 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	38 ft·lb/in²	80 kJ/m²	
73°F (23°C)	No Break	No Break	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	15200 psi	105 MPa	ISO 2039-1
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	205 °F	96.0 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	198 °F	92.0 °C	ISO 75-2/Af
Vicat Softening Temperature	208 °F	98.0 °C	ISO 306/B50
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·cm	> 1.0E+13 ohms·cm	IEC 60093
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flammability Classification			IEC 60695-11-10
0.06 in (1.5 mm)	НВ	НВ	-20
0.12 in (3.0 mm)	HB	НВ	
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in (1.5 mm)	1200 °F	650 °C	
0.12 in (3.0 mm)	1200 °F	650 °C	

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