Technical Data Sheet

ROTEC® ABS HF 3

Injection moulding grade, easy-flowing

Properties	*Unit*	*Test Method*	*Test Condition*	**Value***
Mechanical				
Tensile Modulus	MPa	DIN EN ISO 527	23°C 1 mm/min	2,400
Tensile Strength	MPa	DIN EN ISO 527	23°C 50 mm/min	45
Elongation at Break	%	DIN EN ISO 527	23°C 50 mm/min	14
Flexural Modulus	MPa	DIN EN ISO 178	23°C 2 mm/min	2,500
Flexural Strength	MPa	DIN EN ISO 178	23°C 2 mm/min	73
Notched Impact Strength (Charpy)	kJ/m²	DIN EN ISO 179/1eA	80 x 10 x 4 mm 23°C	15
Impact Strength (Charpy)	kJ/m²	DIN EN ISO 179/1eU	80 x 10 x 4 mm 23°C	n.b.
Physical				
Density	g/cm³	DIN EN ISO 1183	23°C, 50% RH	1.05
Water Absorption	%	DIN EN ISO 62	23°C, 24 h	0.3
Thermal				
Heat Distortion Temperature A	°C	DIN EN ISO 75/1	1.8 MPa	-
Vicat Softening Temperature B 50	°C	DIN EN ISO 306	50 N 50°C/h	98
Melt Mass Flow Rate (MFR)	g/10 min	DIN EN ISO 1133	220°C, 10 kg	40
Thermal Conductivity	W/(K·m)	DIN 52612	--	0.18
Thermal Coefficient of Linear Expansion	$10^{-4} \cdot K^{-1}$	ISO 11359-2	23°C - 55°C	0.85
Processing Shrinkage	%	DIN EN ISO 294-4	23°C	0.3 - 0.7
Glow Wire Flammability Index (GWFI)	°C	DIN EN 60695-2-12	3.0 mm	600
Glow Wire Ignition Temperature (GWIT)	°C	DIN EN 60695-2-13	3.0 mm	625
Flammability (File No.: E148878 → UL listed)	--	UL94	1.5 mm	HB
Burning Rate	mm/min	DIN 75200	3.0 mm	35
Electrical				
Relative Permittivity	--	IEC 60250	100 Hz / 1 MHz	3.0 / 2.9
Specific Volume Resistance	Ohm · m	DIN IEC 60093	--	10^{13}
Specific Surface Resistance	Ohm	DIN IEC 60093	--	10^{15}
Electric Strength	kV/mm	DIN EN 60243-1	1.0 mm	32

* = These are average figures, which could vary in each production batch due to addition of pigments, antistatica, slip, uv stabilizer or other.

ROMIRA GMBH

[HongKong] +852-69575415 [China GuangDong] +135-3858-6433 [China ShangHai] +188-1699-6168