

Technical Data Sheet
Status January 2016



ROTEC® PMMA U470/03

PMMA-Compound, deep black, excellent UV resistance

<i>Properties</i>	<i>Unit</i>	<i>Test Method</i>	<i>Test Condition</i>	<i>Value*</i>
<i>Mechanical</i>				
Tensile Modulus	MPa	DIN EN ISO 527	23°C 1 mm/min	2,030
Tensile Strength	MPa	DIN EN ISO 527	23°C 50 mm/min	49
Elongation at Break	%	DIN EN ISO 527	23°C 50 mm/min	50
Flexural Modulus	MPa	DIN EN ISO 178	23°C 2 mm/min	2,200
Flexural Strength	MPa	DIN EN ISO 178	23°C 2 mm/min	75
Notched Impact Strength (Charpy)	kJ/m ²	DIN EN ISO 179/1eA	80 x 10 x 4 mm 23°C / -30°C	5.8 / 2.8
Impact Strength (Charpy)	kJ/m ²	DIN EN ISO 179/1eU	80 x 10 x 4 mm 23°C / -30°C	70 / 68
<i>Physical</i>				
Density	g/cm ³	DIN EN ISO 1183	23°C, 50% RH	1.14
Water Absorption	%	DIN EN ISO 62	23°C, 24 h	-
<i>Thermal</i>				
Heat Distortion Temperature A (annealed)	°C	DIN EN ISO 75/1	1.8 MPa	89
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	5.5
Thermal Coefficient of Linear Expansion	10 ⁻⁴ · K ⁻¹	ISO 11359-2	-30°C to +80°C	0.85
Processing Shrinkage	%	DIN EN ISO 294-4	23°C 3,0 mm	0.4 - 0.6
Flammability (own testing)	--	UL94	1.6 mm	HB

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

The information submitted is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors from the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

ROMIRA GMBH Siemensstraße 1-3 D-25421 Pinneberg
Telephone No.: +49 / 41 01 / 706 - 03 – Telefax No.: +49 / 41 01 / 706 - 300
www.romira.de – info@romira.de