

Technical Data Sheet

Status August 2011

Rotec® PMMA U470

ROMIRA
ENGINEERING POLYMERS

PMMA –Compound, scratch resistant, high gloss

Properties	Test Unit	Test Method	Measuring-Condition	Value*	Remarks
Mechanical					
Tensile Modulus	MPa	DIN EN ISO 527	23°C 1 mm/min	2300	
Tensile Strength	MPa	DIN EN ISO 527	23°C 50 mm/min	55	
Elongation at Break	%	DIN EN ISO 527	23°C 50 mm/min	30	
Flexural Modulus	MPa	DIN EN ISO 178	23°C 2 mm/min	2200	
Flexural Strength	MPa	DIN EN ISO 178	23°C 2 mm/min	79	
Notched Impact Strength (Charpy)	kJ/m ²	ISO 179 1eA	80 x 10 x 4 mm 23°C	7	
Impact Strength (Charpy)	kJ/m ²	ISO 179 1eU	80 x 10 x 4 mm 23°C	70	
Physical.....					
Density	g/cm ³	ISO/R 1183	23°C, 50% RH	1.15	
Water Absorption	%	ISO 62	23°C, 24 h	-	
Thermal.....					
Heat Distortion Temperature	°C	DIN EN ISO 75	1.80 MPa	93	
Vicat Softening Temperature	°C	DIN EN ISO 306	50°C/h 5 kg	96	
Melt Index MFR	g/10 min	DIN EN ISO 1133	220°C, 10 kg	7	
Thermal Coefficient of Linear Expansion	10 ⁻⁴ · K ⁻¹	ISO 11359-2	23- 55°C	-	
Flammability		UL94	1,3 mm	HB	
Shrinkage	%	ISO 294-4	23°	0.35 – 0.42	

*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.