

# Technical Data Sheet

Status August 2011

**Rotec® PMMA U470**

**ROMIRA**  
ENGINEERING POLYMERS

## **PMMA –Compound, scratch resistant, high gloss**

<i>Properties</i>	<i>Test Unit</i>	<i>Test Method</i>	<i>Measuring-Condition</i>	<b>Value*</b>	Remarks
<i>Mechanical .....</i>					
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 <sup>2</sup>	ISO 179 1eA	80 x 10 x 4 mm 23°C	7	
Impact Strength (Charpy)	kJ/m <sup>2</sup>	ISO 179 1eU	80 x 10 x 4 mm 23°C	70	
<i>Physical.....</i>					
Density	g/cm <sup>3</sup>	ISO/R 1183	23°C, 50% RH	1.15	
Water Absorption	%	ISO 62	23°C, 24 h	-	
<i>Thermal.....</i>					
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 <sup>-4</sup> · K <sup>-1</sup>	ISO 11359-2	23- 55°C	-	
Flammability		UL94	1,3 mm	HB	
Shrinkage	%	ISO 294-4	23°	0.35 – 0.42	

**ROMIRA GMBH**