# CERTIFICATE OF ANALYSIS

**Product** Polymethyl methacrylate **Mp 156,200**

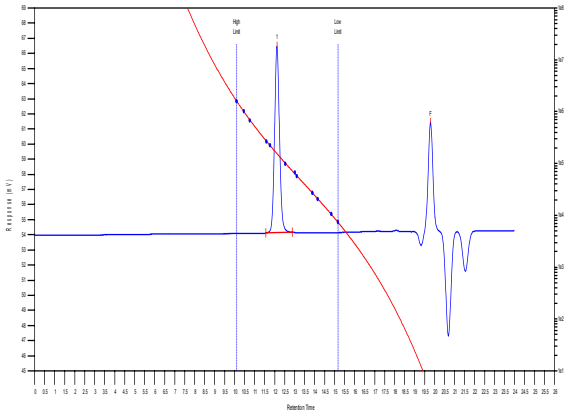
**Batch Number** 0006583042

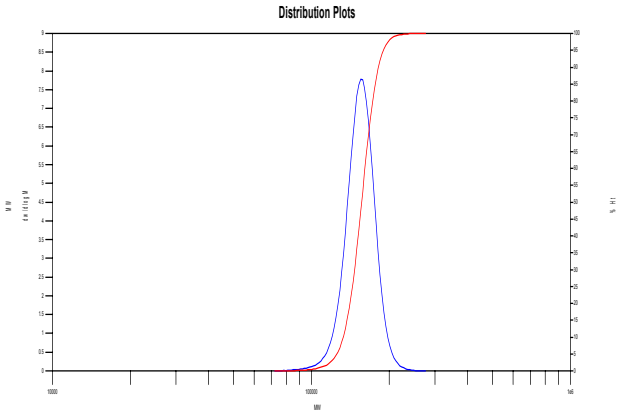
**Part Numbers** PL2023-6001, PL2023-6005, PL2023-6010

| | GPC | Light scattering | Viscometry |
|---|---|---|---|
| **Mp** (g/mol) | 156,200 | | |
| **Mn** (g/mol) | 153,600 | | |
| **Mw** (g/mol) | 156,200 | 178,000 | |
| **Mv** (g/mol) | 155,800 | | |
| | Mw/Mn = 1.02 | | [η] = 0.4278 dl/g |

Mp, Mn, Mw & Mv are the respective peak, number, weight and viscosity molecular weight averages

Mw/Mn = molecular weight distribution or polydispersity ratio [η] = Intrinsic viscosity






**Analysis Conditions**

| | GPC | Light scattering | Viscometry |
|---|---|---|---|
| System | Cirrus GPC / SEC | Agilent 1260 GPC/SEC MDS | Agilent 1260 GPC/SEC MDS |
| Detector | Refractive index | 1260 Infinity Dual Angle LS | 1260 Infinity Viscometer |
| Columns | 2 x PLgel MIXED-C 5µm 300x7.5mm | PLgel 10µm MIXED-BLS 300x7.5mm | PLgel 10µm MIXED-BLS 300x7.5mm |
| Solvent | THF | THF | THF |
| Flow rate | 1.0 ml / min | 1.0 ml / min | 1.0 ml / min |
| Injection volume | 20µl | 100µl | 100µl |
| Sample concentration | 0.1% | 2.05160 mg / ml | 2.05160 mg / ml |
| Temperature | Ambient | 30°C | 30°C |
| Calibrants | Polymethylmethacrylate | Polystyrene | Polystyrene |
| Angle | | 90° | |
| dn/dc | | 0.085 g/ml | |

The above characterisation data has been measured according to our Quality Control procedures.

Certificate of Analysis valid until expiry date – 17th January 2031

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Quality Department

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