

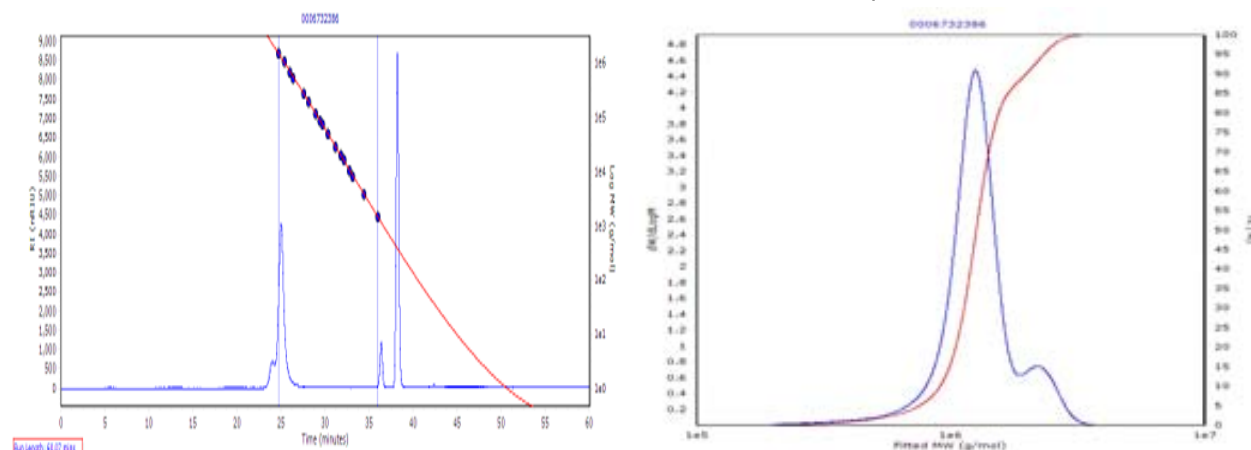
CERTIFICATE OF ANALYSIS

Product Polyethylene oxide
Batch Number 0006732386
Part Numbers PL2084-2001, PL2084-2005, PL2084-2010

Mp 1,250,000

	GPC	Light scattering	Viscometry
Mp (g/mol)	1,250,000		
Mn (g/mol)	1,150,000		
Mw (g/mol)	1,334,000	1,439,000	
Mv (g/mol)	1,312,000		
	Mw/Mn = 1.14		[η] = 7.5977 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	Agilent GPC Software	Agilent GPC Software	Agilent GPC Software
Detector	Refractive Index	390-MDS 15/90 LS	390-MDS Viscometer
Columns	4 x PLaquagel-OH MIXED-H 8μm 300x7.5mm	PL aquagel-OH MIXED-H 8μm 300x7.5mm	PL aquagel-OH MIXED-H 8μm 300x7.5mm
Solvent	0.02% NaN ₃ Sol	0.02% NaN ₃ Sol	0.02% NaN ₃ Sol
Flow rate	1.0 ml / min	1.0 ml / min	1.0 ml / min
Injection volume	100μl	100μl	100μl
Sample concentration	0.025%	0.126 mg / ml	0.126 mg / ml
Temperature	Ambient	30°C	30°C
Calibrants	PEO/PEG	Polyethylene Oxide	Polyethylene Oxide
Angle		15°	
dn/dc		0.136 ml/g	

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

Certificate of Analysis valid until expiry date – 11th March 2028

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Quality Department

