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SHAZAND PETROCHEMICAL COMPANY

PEG 400 - POLYETHYLENE GLYCOL 400

Polyethylene Glycol 400 (PEG 400) is a highly versatile, water-soluble liquid polymer known for its clear appearance, low volatility, and excellent hygroscopic properties. Operating as a thermally stable, Newtonian fluid with an average molecular weight of 400, it is widely valued as a reliable solvent, lubricant, and plasticizer across numerous industries. Its primary applications span from pharmaceutical formulations (such as ointments, oral liquids, and soft gelatin capsules) and cosmetic personal care products to household detergents, ceramics, and agricultural solutions.

Producer	Applications
SHAZAND PETROCHEMICAL	Pharmaceuticals (ointment bases, tablet coatings, gelatine capsules, liquid oral medications), cosmetics and personal care, household products (soaps, detergents), ceramics, adhesives, textiles, and agricultural insecticides

Liquid form			
Resin Properties	Unit	Typical Value	Test Method
MOLES OF EO	-	8EO	-
APPEARANCE	-	COLORLESS	VISUAL
VISCOSITY @ 40°C	CSt	40-45	ASTM D - 445
PH	-	5-7	ASTM D - 1172
HYDROXYL NO.	mg KOH/gr	261-303	ASTM D - 4252
M.W	Kg/Kmol	370-340	CALCULATED

Solid form			
Resin Properties	Unit	Typical Value	Test Method
MOLES OF EO	-	93 EO	-
APPEARANCE	-	FLAKE	VISUAL
VISCOSITY @ 40°C	CSt	260 - 360	ASTM D - 445
PH	-	5-7	ASTM D - 1172
HYDROXYL NO.	mg KOH/gr	25 - 30	ASTM D - 4252
M.W	Kg/Kmol	3740 - 4480	CALCULATED
WATER CONTENT (Solid & Liquid)	WT.%	0.5 MAX.	GC/ 1-2.93-1006