

Ethylene-Propylene-Diene-Rubber (EPR)

The first synthesis ever of an Ethylene-Propylene elastomer copolymer was performed in the late '50's by Nobel Prize Professor Natta and his team.

LVE EP(D)M is produced by slurry polymerization process, which allows the production of a wide variety of grades.

The slurry process does not require solvent nor solvent recovery equipment, improving its sustainability. Monomers are highly soluble in the reaction bulk, therefore high molecular weight polymers can be easily produced with this process; in order to facilitate high molecular weight EP(D)M transformation, a wide range of oil extended grades are made available, in both traditional paraffinic oil or in heavily purified paraffinic white oil.

Copolymers

GRADE NAME	Mooney Viscosity ML (1+4)@		Polymer composition %wt			Extension Oil Content		Main Applications
	100°C	125°C	Ethylene	Propylene	ENB	%wt	phr	
DUTRAL K CO 034	44	-	72	28	-	-	-	Cables, appliances, polymer modification, oil viscosity modifier
DUTRAL K CO 038	-	60	72	28	-	-	-	Automotive, cables, appliances, polymer modification, oil viscosity modifier
DUTRAL K CO 043	33	-	55	45	-	-	-	Automotive, cables, appliances, polymer modification, oil viscosity modifier, bitumen modification
DUTRAL K CO 054	44	-	59	41	-	-	-	Automotive, cables, mechanical goods, building, bitumen modification, polymer modification, appliances
DUTRAL K CO 058	80	-	52	48	-	-	-	Appliances, polymer modification, oil viscosity modifier
DUTRAL K CO 059	-	79	59	41	-	-	-	Polymer modification, mechanical goods, building

Terpolymers

GRADE NAME	Mooney Viscosity ML (1+4)@		Polymer composition %wt			Extension Oil Content		Main Applications
	100°C	125°C	Ethylene	Propylene	ENB	%wt	phr	
DUTRAL K TER 4033	30	-	70	25	5	-	-	Automotive, cables, mechanical goods, high hardness profiles
DUTRAL K TER 4038 EP	-	60	69	27	4.4	-	-	Automotive, cables, mechanical goods, building, appliances, polymer modification
DUTRAL K TER 4039	-	77	69	27	4.4	-	-	Automotive, cables, mechanical goods, building, appliances, polymer modification
DUTRAL K TER 4044	44	-	61	35	4	-	-	Automotive, cables, mechanical goods, building, appliances
DUTRAL K TER 4047	-	55	56	40	4.5	-	-	Automotive, mechanical goods, building
DUTRAL K TER 4049	-	76	56	40	4.5	-	-	Automotive, cables, mechanical goods, building, appliances
DUTRAL K TER 4334	-	28	68	27	4.7	30	43	Automotive, cables, mechanical goods, building, appliances
DUTRAL K TER 4436	-	43	67	28	5.5	40	67	Automotive, mechanical goods, appliances, TPV
DUTRAL K TER 4436WO	-	43	67	28	5.5	40(*)	67(*)	Automotive, mechanical goods, appliances, TPV
DUTRAL K TER 4437	-	57	64	32	4.5	40	67	Automotive, mechanical goods, appliances, TPV
DUTRAL K TER 4437 WO	-	57	64	32	4.5	40(*)	67(*)	Automotive, mechanical goods, appliances, TPV, building
DUTRAL K TER 4535	-	32	65	32	3.4	50	100	Automotive, mechanical goods, building, appliances, cables
DUTRAL K TER 4548	-	47	60	36	4.5	50(*)	100(*)	Automotive, mechanical goods, appliances, TPV
DUTRAL K TER 6148	-	65	53	40	7	15	18	Automotive, mechanical goods, building, appliances
DUTRAL K TER 6235	-	33	61	32	7.4	23	30	Automotive, mechanical goods, building, appliances, cables
DUTRAL K TER 6537	-	43	60	32	8	50	100	Automotive, mechanical goods, appliances, TPV, building
DUTRAL K TER WO65	-	43	60	32	8	50(*)	100(*)	Automotive, mechanical goods, appliances, TPV, building
DUTRAL K TER 7040	-	87	54	40	6.5			Automotive, mechanical goods, building
DUTRAL K TER 8148	-	68	53	39	8.5	17.5	21	Automotive profile, building, mechanical goods
DUTRAL K TER 9046	67	-	60	31	8.9	-	-	Automotive, mechanical goods, appliances, building

(*) Pure Paraffinic Oil