



MULTIPLIED PERFORMANCE

Ethylene-Propylene-Diene-Rubber (EPR, EP(D)M)

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 4436 WO	-	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



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에틸렌 프로필렌 엘라스토머 공중합체의 최초 합성은 1950년대 후반 노벨상 수상자인 Natta교수와 그의 팀에 의해 수행되었습니다.

LVE EP(D)M은 슬러리 중합 공정으로 생산되며 다양한 종류의 제품을 생산할 수 있습니다.

슬러리 공정은 용매 또는 용매 회수 장비가 필요없으므로 지속 가능성이 향상됩니다.

모노머는 중합 반응에서 잘 용해되기 때문에 고분자량을 갖는 폴리머를 슬러리 공정에서 쉽게 제조할 수 있습니다. 고분자량 EP(D)M 생산이 용이하도록, 파라핀계 오일 또는 고도 정제된 파라핀계 화이트 오일 사용하여 광범위한 오일 첨가 제품을 생산할 수 있습니다.

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